Getac

PS236

Extended SKU

USER MANUAL

Rugged Mobile Computing Solutions

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Notes
Depending upon the specific model purchased, the color and look of your device and accessories may not exactly match the graphics shown in this document.
The screenshots and other presentations shown in this document are for reference only. They may differ from the actual screens and presentations generated by the actual product.
For the latest version of the manual, please visit the Getac website at www.getac.com.

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Chapter 1

Getting Started

This chapter introduces you to the external components of your device and guides you through the process of setting up your device for use.

Identifying Hardware Components

Front Components

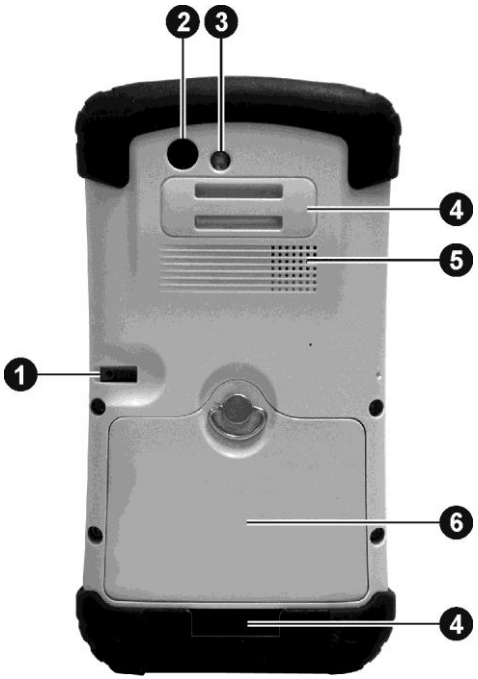
Ref	Component	Description
❶	**Mobile Phone Indicator**	Flashes in **blue** to indicate that the phone function is switched on (select models only).
❷	**RF (Radio Frequency) Indicator**	Flashes in **blue** to indicate that the Bluetooth radio is on.
		Flashes in **amber** to indicate that the Wi-Fi (wireless network) radio is on.
		Flashes in **purple** to indicate that the GPS receiver is on.
		If more than one module is switched on, the indicator changes color in a cyclic way.
❸	**Charge/ Notification Indicator**	Glows in **amber** to indicate that battery charging is in progress.
		Glows in **green** to indicate that the battery is fully charged.
		Glows in **red** to indicate that the battery power is critically low (less than 10%).
		Flashes in **red** to inform you of scheduled appointments, alarms and reminders.
❹	**Earpiece**	Serves as the phone earpiece during a call (select models only).
❺	**Touch Screen**	Displays the output of your device and responds to your tapping.
❻	**Keypad**	Includes keys for numbers and specific functions. It lights up when a key is pressed. (See the next section for details.)
❼	**Power Button**	Turns on or off your device.
❽	**Microphone**	Records voices.
		Serves as the mouthpiece during a call (select models only).

Keypad

Ref	Component	Description	
❶	**Phone Keys**	Enter numbers by default.	
		Enter text without the on-screen keyboard. (See "Entering Text Using the Physical Keypad" in Chapter 2 for detailed information.)	
	Alternative Function Keys	Provide functions as indicated by the orange icons when **Fn** lock is on. (See also item ❹ later in this table.)	
			Moves up, down, left and right within the screen or menu.
			Goes to the next input field.
			Backspaces over one character when in a text input field.
			Increases the brightness level of the screen. It cycles to the lowest level after reaching the highest level.
❷	**Send Key**	Dials or answers a call (select models only).	

Ref	Component	Description
❸	**Left/Right Soft Key**	Performs the command shown on the bottom left or right corner of the screen.
❹	**Function Key**	Switches on or off the "alternative functions" of the numeric keys. **Fn** lock is off by default. When it is switched on, the icon shows in the navigation bar.
❺	**Camera Key**	Starts the Camera program.
		Serves as the shutter release button if the Camera program is currently in use.
❻	**End Key**	Ends or rejects a call (select models only).
		Returns to the Today screen from another program.
❼	**F1 Key**	Starts TacLink by default. You can assign a different program to the key by tapping → **Settings** → **Personal**→ **Buttons**.
	Start Key	Opens the Start menu (with **Fn** lock).
❽	**F2 Key**	Starts Notes by default. You can assign a different program to the key by tapping → **Settings** → **Personal**→ **Buttons**.
	OK Key	Closes the current displayed menu or program (with **Fn** lock).
❾	**Action Key**	Confirms your selection by pressing, similar to the Enter key on a keyboard.

Back Components

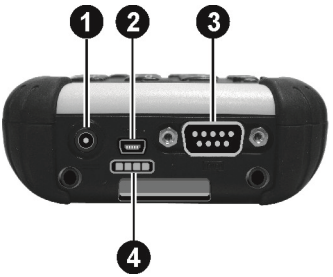


Ref	Component	Description
❶	**Stylus**	Serves as the input device by tapping on the touch screen to make selections and enter information.
❷	**Camera Lens**	Takes still pictures or records video clips.
❸	**Flash**	Provides extra light when taking pictures.
❹	**Hand Strap Holders**	The hand strap attaches here.
❺	**Speaker**	Plays music, sounds and voices.
❻	**Battery Cover**	Inside is the battery.

Top Components

Ref	Component	Description
❶	**Expansion Port Cover**	Inside is the Expansion Port (FlexiConn™ Mini-PCIE type) that allows you to use a Getac proprietary accessory for additional functions. (Contact your sales representative for technical information of FlexiConn™ if needed.) **NOTE:** This port and the RS232 serial port cannot be used at the same time. When using the port, tap → **Settings** → **System**→ **Serial Port Switch** to set up accordingly.

Bottom Components



Ref	Component	Description
❶	**Power Connector**	Connects to the AC adapter.

Ref	Component	Description
❷	**USB OTG (Host & Client) Connector**	Connects to the USB cable.
❸	**Serial Port**	Provides D-sub 9 pins RS232 function. **NOTE:** This port and the Expansion Port cannot be used at the same time. When using the port, tap → **Settings** → **System**→ **Serial Port Switch** to set up accordingly.
❹	**Docking Connector**	Connects to the office dock (an option).

Getting Your Device Ready for Use

Installing the SIM Card and Battery

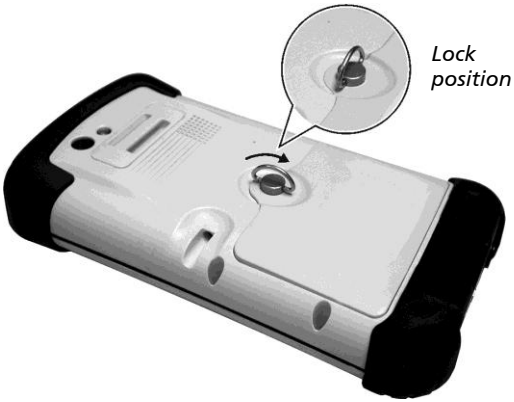
1. Lift the latch handle of the battery cover and turn it counterclockwise to the unlock (vertical) position. Then, detach the cover from the device.

2. If you model has the phone function, you need to install the SIM card provided by your mobile operator. With the SIM card's chip side facing up and the beveled corner pointing to the slot, insert the card all the way into the slot.

NOTE: To remove the SIM card, slightly push in the card to release it and then pull the card out of the slot.

3. To install the battery, first attach the connector side of the battery to the connector in the compartment and then lower the other side.

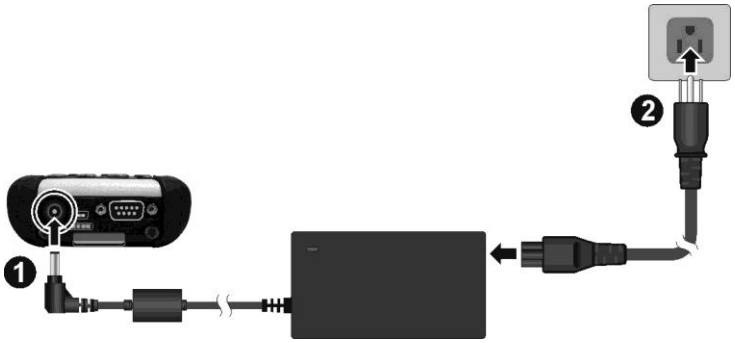
4. Attach the bottom side of the battery cover to the device at an angle and then, with the handle still in the unlock (vertical) position, fit the latch handle into place. Secure the latch by turning it clockwise to the lock (horizontal) position.



Connecting to AC Power and Charging the Battery

Be sure to fully charge the battery before using your device for the first time.

1. Plug the DC cord of the AC adapter into the power connector of the device (❶).
2. Plug the female end of the AC power cord into the AC adapter and the male end into an electrical outlet (❷).



3. The charge indicator glows in amber when charging is in progress. Do not disconnect your device from AC power until the battery is fully charged, as indicated by the amber indicator turning into green. This will take a couple of hours.

CAUTION: For optimal performance of the lithium battery, take note of the following:

- Use the included AC adapter only.
- There is no need to fully discharge the battery before charging. You can charge the battery before it is discharged.
- Do not charge the battery where the temperature is high (e.g. in direct sunlight).

- As a protection against damage, your device stops charging when the battery's temperature is extremely high or low. In high temperature conditions, the charging stops when the battery's temperature gets above 70°C (158°F) and continues when the temperature lowers to 60°C (140°F). In low temperature conditions, the charging stops when the temperature gets below -5°C (23°F) and continues when the temperature rises to 0°C (32°F).
- If you will not use the product for a long period of time, be sure to fully charge the battery at least once every two weeks. Over discharge of the battery can affect the charging performance.

Performing the Initial Startup

When turning on your device for the very first time, you will be guided through a setup process.

1. Make sure that your device is either connected to AC power or the battery has power.
2. Press the power button to turn on your device.

   The backlight of the keypad will light up and, after a few seconds, the setup screen appears.
3. Follow the on-screen instructions to complete the setup wizard.
4. For models with the phone function only:

   If a SIM card has been inserted and the mobile phone network operator (or you) has set the PIN, you will be prompted to enter the PIN. Enter the PIN and tap **Enter**.

   If a SIM card has not been inserted yet, a message of an invalid or missing SIM card will appear on the screen. You can tap **Cancel** to continue the startup procedure.
5. After the setup is completed, the Today screen appears. You can now use your device.

Synchronizing with Your Computer

ActiveSync and Windows Mobile Device Center (WMDC) provide an easy way to synchronize data on a Windows-based computer with your device. ActiveSync works on computers that have the Windows XP operating systems. WMDC works only on computers that have Windows Vista or Windows 7.

ActiveSync and WMDC act as gateways between your device and your computer for transferring Outlook e-mail, appointments, contacts, and tasks, and media such as pictures, music, and videos. You can also use the Explore feature in either program to move files or programs from your computer to your device.

Installing ActiveSync or WMDC

If you're using Windows XP or earlier versions of Windows, install ActiveSync with the supplied Getting Started Disc.

If you're using Windows Vista or Windows 7, download and install Windows Mobile Device Center 6.1. (Visit the Microsoft website to download the program and to obtain operating instructions.)

NOTE:

- Before installation, make sure that you have Microsoft Outlook installed on your computer.
- Connect your device to the computer AFTER Windows Mobile Device Center or ActiveSync is installed.
- ActiveSync connection problems may occur in some specific cases. They are likely caused by interoperability with desktop firewall applications or applications that manage network traffic. For troubleshooting information, visit the Microsoft web site.

After the software installation, connect your device to your computer with the USB cable and you are ready to synchronize.

Using Options

Using the Tether

NOTE: Attach the tether for the stylus to the device before attaching the hand strap.

A tether is provided for attaching the stylus to your device.

1. Insert one of the tether's loop ends through the hole of the stylus (as indicated by ❶ below). Then, insert the other end through the first loop (as indicated by ❷ below) and pull it tight.

2. Insert the other loop end to the holder on the device (as indicated by ❶ below). Then, insert the stylus end through the loop (as indicated by ❷ below) and pull it tight.

Using the Hand Strap

NOTE: Attach the tether for the stylus to the device before attaching the hand strap.

You can attach the hand strap to your device.

Chapter 2

Basic Skills

This chapter familiarizes you with the basic operations of your device.

CAUTION: The device can get uncomfortably warm when you use it in high temperatures. In such a circumstance, please take safety measures (such as wearing gloves) to protect yourself. Prolonged body contact can cause discomfort and potentially a burn.

Power Saving and Turning Off

Backlight Off

The backlight of the screen dims out after a period of inactivity (default 30 seconds while on battery power and 1 minute while on external power).

To restore the backlight, tap the screen or press a button. Note that where you tap or what you press also causes the related task to be performed.

Entering the Suspend Mode

Your device automatically suspends after a period of inactivity (default 3 minutes while on battery power and 5 minutes while on external power).

To manually suspend the device, briefly press the power button.

NOTE: (For models with the phone function only) The Mobile Phone Indicator keeps on flashing when your device is suspended. Any incoming call will resume your device.

To resume operation, press the power button. You will be back to where you left off.

Turning Off

If you are not using your device, press and hold the power button for at least 3 seconds until the device plays a notification sound and turns off.

Navigating on the Screen

Using the Stylus

Use the stylus to navigate and select objects on the screen.

Pull the stylus out of the slot and extend it for ease of use. Store it in the slot when not in use.

- **Tap**
  Touch the screen once with the stylus to open items and select options.
- **Drag**
  Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.
- **Tap and hold**
  Tap and hold the stylus on an item to see a list of actions available for that item. On the shortcut menu that appears, tap the action you want to perform.

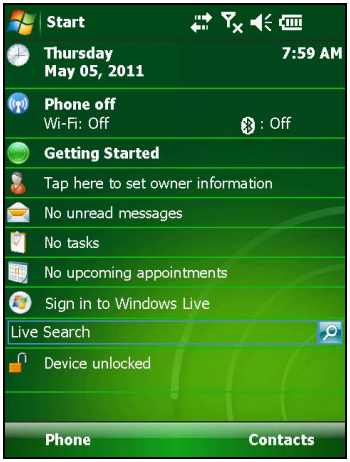
Using the Keypad

You can also use the keypad to navigate on the screen. (See “Keypad” in Chapter 1 for information.)

Today Screen

When you switch on your device for the first time each day, you will see the Today screen. The Today screen can be easily accessed from any screen by tapping and then **Today**.

The Today screen shows your upcoming appointments, active tasks, information about e-mail messages, and more. You can tap a section on the Today screen to open the program that is associated with that section.



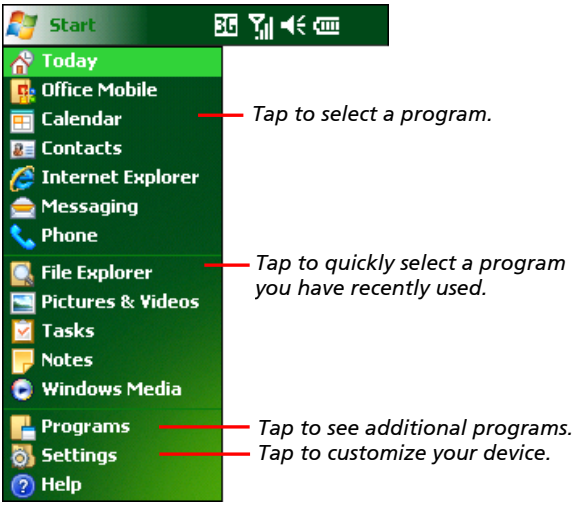
Landscape View

You can use your device in a landscape manner. To change the screen view, tap → **Settings** → **System** → **Screen** → **General** → **Landscape** or **Portrait**.

Navigation Bar and Toolbar

The navigation bar is located at the top of the screen. It displays the active programs and allows you to switch programs and close screens.

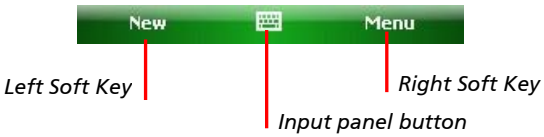
The navigation bar and Start menu:



The navigation bar also contains the volume indicator, battery indicator, and connectivity indicators. You can tap an indicator for related controls.

Use the toolbar at the bottom of the screen to perform tasks in programs. The toolbar includes a left soft key, a right soft key, and the Input panel button in between. The right soft key is usually **Menu** while the left soft key varies with programs.

An example of the toolbar:



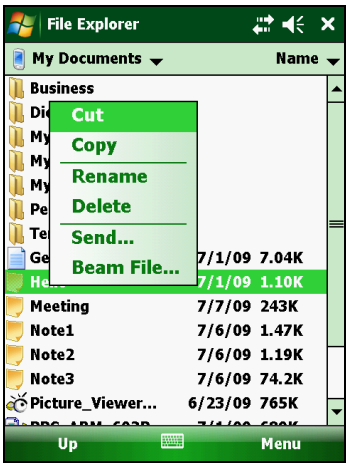
Running Programs

You can switch from one program to another without closing any program.

- To run a program, tap on the left-top corner of the screen and select from the Start menu.
- To access additional programs, tap → **Programs** and tap the program icon.

Shortcut Menus

With shortcut menus, you can quickly choose an action for an item. The actions in the shortcut menus vary from program to program. To access a shortcut menu, tap and hold the stylus on the name of the item that you want to perform the action on. When the menu appears, lift the stylus and tap the action you want to perform. Or tap anywhere outside the menu to close the menu without performing an action.



Notifications

Your device reminds you in a variety of ways when you have something to do. For example, if you have set up an appointment in Calendar, a task with a due date in Tasks or an alarm in Clock, you will be notified in any of the following ways:

- A message appears on the screen.
- A sound, which you can specify, is played.
- The notification indicator flashes in red.

To choose reminder types and sounds for your device, tap → **Settings** → **Personal** → **Sounds & Notifications**.

Entering Information

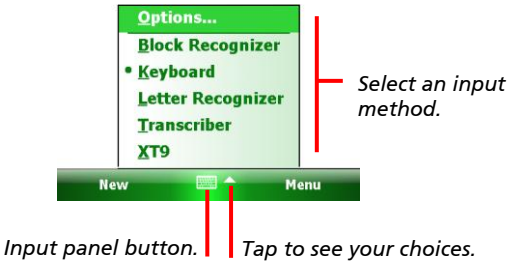
You have several options for entering new information:

- Use the Input panel to enter typed text, either by using the on-screen keyboard or other input methods.
- Use the physical keypad
- Write directly on the screen.
- Draw pictures on the screen.
- Speak into the microphone to record a message.

Entering Text Using the Input Panel

Use the Input panel to enter information in any program on your device. You can either type using the on-screen keyboard or write using a recognizer. In any case, the characters appear as typed text on the screen.

To show or hide the Input panel, tap the **Input panel** button. Tap the arrow next to the Input panel button to see your choices.



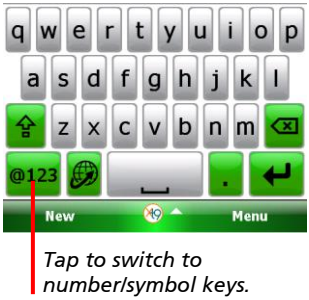
XT9 Keyboard

Your device implements XT9 Text Input Software that offers large keys and allows you to enter text faster and more easily.

There are two input modes available: XT9 mode and ABC mode. To use a different mode, tap and hold the **@123** or **ABC** key (at the lower left corner) to display the menu and then tap your selection.

The difference between XT9 and ABC modes is that XT9 mode supports enhanced features such as visible selection list, word completion, spell correction, and auto substitution.

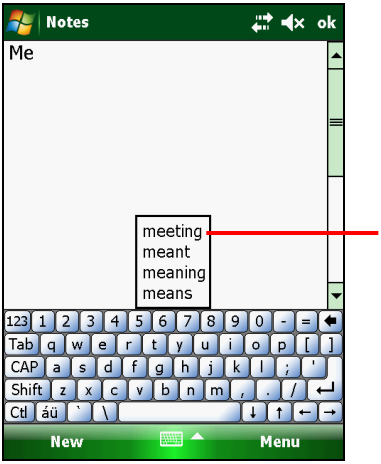
In either mode, you can switch from the letter keys to the number/symbol keys by tapping **@123** and switch back by tapping **ABC**.


q w e r t y u i o p
a s d f g h j k l
z x c v b n m
@123
New
Menu
Tap to switch to number/symbol keys.
. 1 2 3 ?
! 4 5 6 ,
7 8 9
ABC 0
New
Menu
Tap to switch to letter keys.
Tap one of the arrow keys to cycle to the previous or next set of number/symbol keys.

For detailed information on using and customizing XT9 features, tap and hold the **@123** or **ABC** key (at the lower left corner) to display the menu and then tap **Options → XT9 Help**.

Microsoft Keyboard

When you use the Microsoft Input panel, your device anticipates the word you are typing or writing and displays it above the Input panel. When you tap the displayed word, it is inserted into your text at the insertion point. The more you use your device, the more words it learns to anticipate.


Notes
ok
Me
meeting
meant
meaning
means
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \
New
Menu
Tap here if this is the right word.

Recognizer

NOTE: The availability of recognizers depends on the region and the language version you purchased.

With a recognizer, you can write letters using the stylus just as you would use a pen on paper.

When you write a letter, it is converted to typed text that appears on the screen. For specific instructions on using a recognizer, open a recognizer and then tap the question mark next to the writing area.

Entering Text Using the Physical Keypad

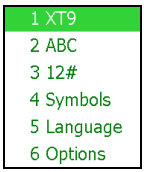
The physical keypad on your device works with XT9 Text Input Software to provide text input capability. You can use the physical keypad to enter text when the Input Panel is hidden.

NOTE: When the Input Panel is open, the text input capability of the physical keypad will be disabled.

The keypad functions in one of the three input modes:

- **XT9 mode** (default)
- **ABC mode**
- **12# mode**

To switch to a different mode, press the * key for a prolonged period of time. A small options menu, as shown below, will pop up in the lower right corner of the screen. Press **1**, **2**, or **3** for the mode you want.



Keypad Operation in XT9 Mode

XT9 is a smart input mode that allows you to enter words with only one keystroke per letter. Though a key is shared by three to four letters, the XT9 mode can judge from your keystroke combination to predict the word you want to enter. For example, to enter the word **day**, simply press **329**.

Key	Function in XT9 Mode
1	Press to show the list of punctuation marks.
2 ~ 9	Press the key containing the letter you want. A list appears at the bottom of the screen. As you press the next key for the next letter, the list of predicted words updates accordingly.
*****	Press to switch to the next letter case choice: **xt9** (all small case letters) **Xt9** (capitalized) **XT9** (all capitals)
#	Press to enter a space.
0	No function.

Keypad Operation in ABC Mode

ABC mode allows you to enter each letter of a word by pressing the key once, twice, three, or four times until you cycle to the letter you want. For example, to enter the word **day**, press **3** once, **2** once, and **9** three times.

Key	Function in ABC Mode
1	Press as many times as needed to enter one of the below punctuation marks. **. ? ! , - ' @ : /**
2 ~ 9	Press as many times as needed to enter the letter you want.
*****	Press to switch to the next letter case choice: **abc** (all small case letters) **Abc** (capitalized) **ABC** (all capitals)

Key	Function in ABC Mode
#	Press to enter a space.
0	Press once to enter + and twice to enter **0**.

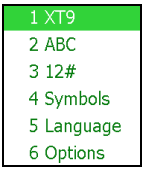
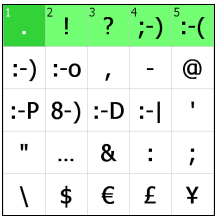
Keypad Operation in 12# Mode

12# mode allows you to enter numbers.

Key	Function in 12# Mode
0 ~ 9	Press to enter the number.
*	Press to return to the previous text input mode.
#	Press to enter #.

Keypad Operation When Pressed Longer

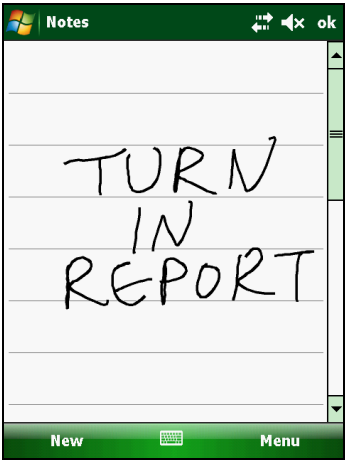
The previous descriptions of the three input modes apply to short press of a key. When a key is pressed longer in any mode, the result is as below:

Key	When Pressed Longer
0 ~ 9	Press longer to enter the number.
*	Press longer to pop up the options menu as shown here. 
#	Press longer to pop up the symbols selection menu as shown here. 

Writing on the Screen

In any program that accepts writing, such as the Notes program, you can use your stylus to write directly on the screen. Write the way you do on paper. You can edit and format what you have written and convert the information to text later.

To write on the screen, tap **Menu** → **Draw** to switch to drawing mode. A check (√) appears before the command.



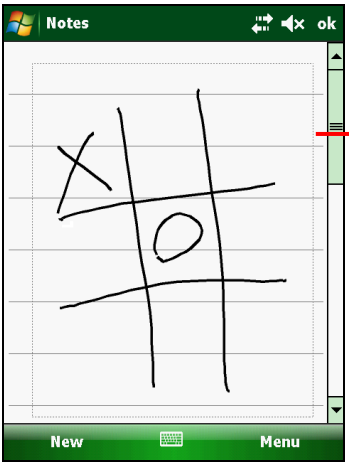
NOTE: Not all programs support the drawing mode.

Drawing on the Screen

You can draw on the screen in the same way that you write on the screen.

1. Tap **Menu** → **Draw** to enable drawing mode. A check (√) appears before the command.
2. To create a drawing, cross three ruled lines on your first stroke. A drawing box appears.

3. Subsequent strokes in or touching the drawing box become part of the drawing. Drawings that do not cross three ruled lines will be treated as writing.



The drawing box indicates the boundaries of the drawing.

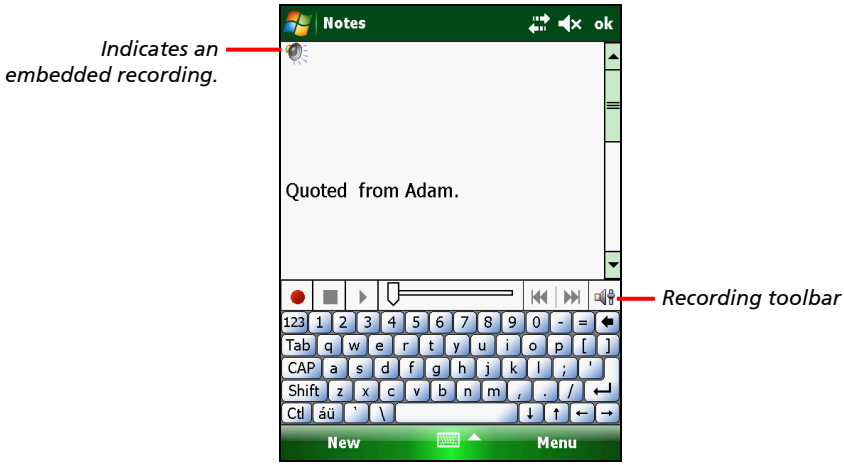
Recording a Message

You can quickly capture thoughts, reminders and phone numbers by recording a message. In the Notes program, you can either create a stand-alone recording or include a recording in a written note. If you want to include the recording in a note, open the note first. In the Messaging program, you can add a recording to an email message.

To create a recording:

1. Tap → **Programs** → **Notes** to switch to the program.
2. Tap **Menu** → **View Recording Toolbar** to show the Recording toolbar.
3. Hold the device's microphone near your mouth or other source of sound.
4. Tap the ● Record button on the Recording toolbar to start recording.
5. To stop recording, tap the ■ Stop button on the Recording toolbar. The new recording appears in the note list or as an embedded icon.

To play a recording, tap it in the list or tap its icon in the note.



Recording Formats

Your device supports several formats for voice notes. The formats vary in both the quality of the recording and the size of the sound file. When selecting a recording format, you should consider the quality you need as well as how much storage memory the recording will use on your device.

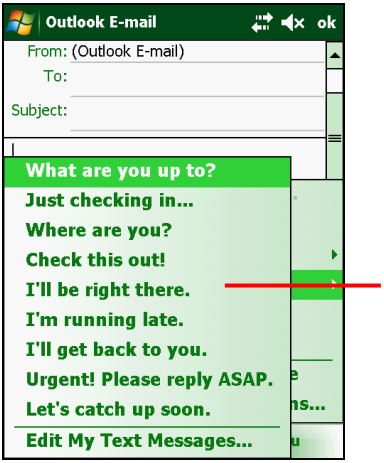
Not all recording formats are compatible with other software or computers. If you will share your recordings with others or transfer a recording to your desktop computer, be sure to choose a recording format that is supported by the software used to play recordings on the other computer.

To select a recording format:

1. Tap → **Settings** → **Personal** → **Input**.
2. On the **Options** tab in the Input control panel, select a voice recording format from the drop-down list.

Using My Text

When using Messaging, use My Text to quickly insert preset or frequently used messages into the text entry area. To insert a message, tap **Menu** → **My Text** and then tap a message.



Securing Your Device

Locking Your Device

When not using your device, you can lock the device so that accidental touching of the keypad or touchpad does not cause it to operate.

To lock the device: tap **Device unlocked** on the Today screen.

To unlock the device: tap **Unlock** (or press the left soft key on the device) → **Unlock** (or press the * key on the device).

Securing Your Device with a Password

You can help keep your data more secure by requiring a password every time your device is switched on.

1. Tap → **Settings** → **Personal** → **Lock**.
2. Tap to select **Prompt if device unused for**, and in the box to the right select a desired period of time.
3. Select the password type.
4. Enter the password you want to use to access your device when it is locked, and then confirm the password.
5. Tap **ok** to save the setting.

The next time your device is switched on, you will be prompted to enter your password. You also need to enter this password on the computer for the ActiveSync connection.

NOTE: If you forget your password, you must clear memory before you can access your device. (See "Restoring Factory Default State" in Chapter 8 for instructions.)

Chapter 3

Using the Phone (Select Models Only)

This chapter tells you how to use the mobile phone function of your device.

About Your Phone

Select models are equipped with the HSDPA (High-Speed Downlink Packet Access) module. HSDPA is an enhanced 3G (third generation) mobile telephony communications protocol. It can operate on 850/900/1800/1900/2100MHz.

To use the phone, you need to first set up an account with a mobile phone network service. The functions available to you depend on the services offered by your mobile phone network service provider and your type of subscription.

Your service provider will provide you with a SIM card. This card contains your mobile phone account details and rights, contacts that can be stored and any additional services to which you have subscribed. You must install a SIM card before you can make or receive phone calls or use wireless data services. (See “Installing the SIM Card and Battery” in Chapter 1 for installation instructions.)

Switching On or Off the Phone

When the device is turned on, the phone is switched on by default. When needed (for example, on an airplane), you can switch off the phone without turning off your device.

1. Tap the Wireless Manager section on the Today screen.

   - or -

   Tap the connectivity indicator on the navigation bar and tap **Wireless Manager**.

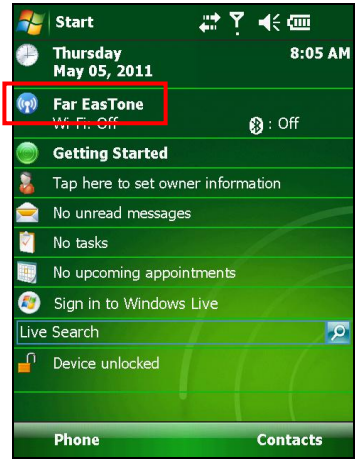
2. The Wireless Manager screen appears.

   Tap **Phone** to switch it from on to off or the other way around. Tap **Done**.

3. When the phone is switched on, you may be requested to enter the PIN (Personal Identification Number) code if it has been set.

   Then, your device will search for the mobile phone network service and show the name in the Wireless Manager section on the Today screen.

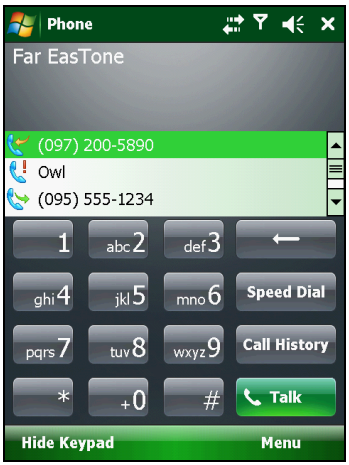
   When the phone is switched off, the Wireless Manager section on the Today screen displays **Phone off**.



Starting the Phone Program

Start the Phone program by any of the three methods:

- Press the **Send** key on the device.
- Tap **Phone** (left soft key) on the Today screen.
- Tap → **Phone**.



NOTE: If the phone is currently off, you will be asked to turn it on.

Whenever you start Phone, the Phone screen displays the soft keypad. You can tap **Hide Keypad** (left soft key).

You can use other programs during a call. To quickly switch back to Phone, press the **Send** key on your device.

Phone Status Icons

Icons will be displayed on the navigation bar to indicate the status of the phone functions. They are listed below.

Icon	Meaning
	Phone off (airplane mode)
	Signal strength
	Call in progress
	Missed call
	Call on hold
G	GPRS available
	GPRS in use
E	EDGE available

Icon	Meaning
	EDGE in use
3G	WCDMA/UMTS available
	WCDMA/UMTS in use
H	HSPA available
	HSPA in use
	New message
	Missing SIM card

Making a Call

There are several ways you can make a call.

Dialing a Call

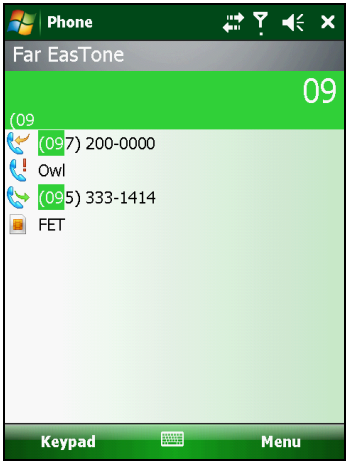
1. **When on the Today screen:** Press the numeric keys on your device to start entering the phone number. Your device will automatically switch to the Phone program.

   While in the Phone program: Enter the phone number using the physical or onscreen keypad.

2. As you enter the phone number, the program searches Contacts, Call History, and Speed Dial to find a matching name and/or number. When you see the name of the person to call listed, select it and the desired phone number.

   Or, you can continue entering the complete phone number.

3. Press the **Send** key on your device to make the call.



NOTE:

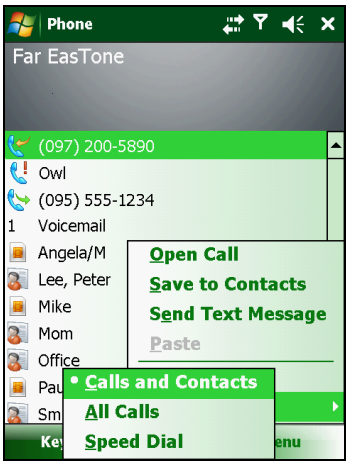
- If you enter a wrong number, use the Backspace key to erase individual numbers one at a time.
- If you are making an international call, tap and hold on the number key 0 until the + sign appears. The + sign replaces the international prefix of the country from where you are calling.

Making a Call from the Onscreen List

Whenever you start the Phone program, the screen lists all recent calls, speed dials, and contacts.

If the list contains the number you want to call, you can conveniently select from the list and press the **Send** key on your device.

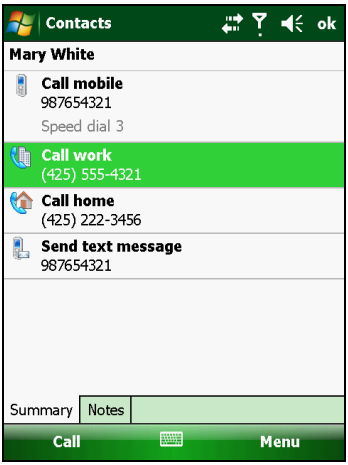
NOTE: To view a different list on the Phone screen, tap **Menu → View** and select one of the options.



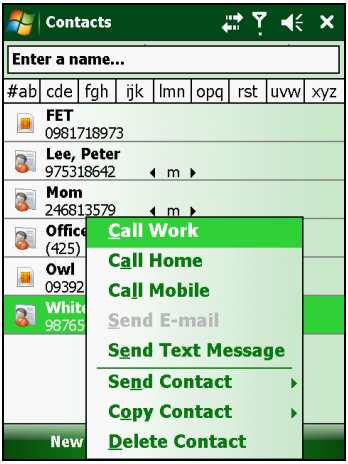
Making a Call from Contacts

Microsoft Contacts displays your contact information stored both in your device's memory and on your SIM card. (See "Contacts: Tracking Friends and Colleagues" in Chapter 5 for detailed information on the Contacts program.)

1. Start the Contacts program.
2. Do one of the followings to call a person in the contact list:
   - Tap the contact to call. Then tap the number to call; or move to the number to call and then tap **Call** or press the Send key.



- Tap and hold on the contact to call, and then tap the number to call in the shortcut menu.

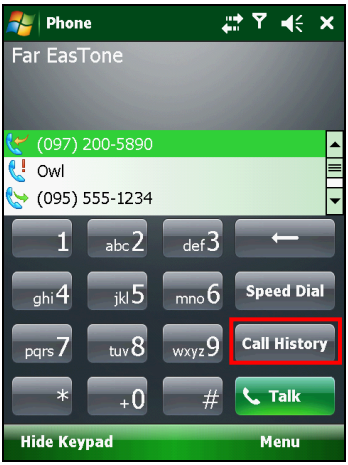


Making a Call from the Call History List

The Call History list displays the calls you made, received or missed.

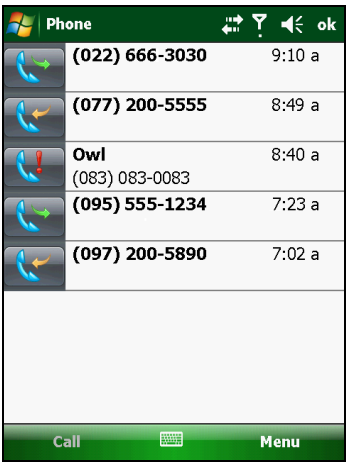
1. While in the Phone program, tap **Call History**.

   If have hidden the keypad, tap **Keypad** to see the **Call History** key.



2. Do one of the followings to call a person in the Call History list:

   - Select the number to call and then tap **Call** or press the **Send** key on your device.
   - Tap and hold on the number to call and then tap **Call** in the shortcut menu.



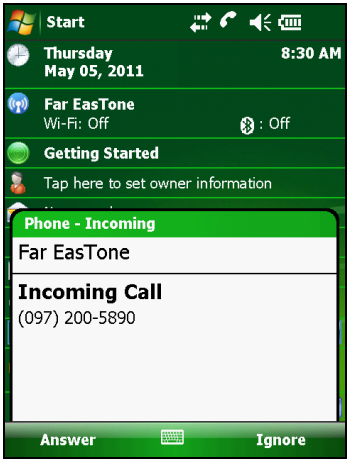
Making a Call from Speed Dial

If you have created speed dial entries, you can call a person quickly. (See "Using Speed Dial" in this chapter for information.)

When on the Today screen or in the Phone program, press and hold the numeric key of the assigned speed dial number to make the call.

Responding to a Call

When an incoming call is received, your device rings or vibrates according to the options you have set for the phone. The name and number of the caller are displayed on the pop-up window. If the name of the caller is not in your contact list, only the caller's phone number is displayed.



Answering a Call

To answer an incoming call, press the **Send** key on your device or tap **Answer** (left soft key).

Rejecting a Call

To reject an incoming call, press the **End** key on your device or tap **Ignore** (right soft key).

Ending a Call

To end a call, press the **End** key on your device or tap **End** on the screen.

Operations during a Call

Adjusting the Phone Volume

To adjust the volume during a call, tap the icon on the navigation bar and select a volume level.

CAUTION: Never raise the sound volume level too high when using earphones. An excessive sound volume level could cause damage to your hearing.

Using the Mute Function

During a call, you can mute your microphone so that the person with whom you are speaking cannot hear you, but you can still hear him or her.

On the Phone keypad, tap **Mute** to switch on the mute function. The icon will appear on the upper-right corner.

To switch off the mute function, tap **Unmute**.

Using the Speakerphone

You can switch on the speakerphone to use your device as a hands-free solution.

On the Phone keypad, tap **Speaker On** to switch on the speakerphone function. The icon will appear on the navigation bar.

To switch off the speakerphone function, tap **Speaker Off**.

Managing More Than One Call

NOTE: You may need to register for the "call waiting" service with your mobile phone network service and set your device accordingly. The exact number of people you can talk at the same time depends on your mobile phone network service.

During a call, you can make or take a second call while putting the current call on hold. Then, you can choose to swap between the two callers or set up a conference call between all three parties.

Holding a Call to Take a Second Call

1. If there is another incoming call when you are talking on your device, a pop-up window appears to notify you.
2. Tap **Answer** to place the first call on hold, and answer the second call.
3. To end the second call and go back to the first, tap **End**.

Rejecting the Second Call

To reject the second call and keep your current call in progress, tap **Ignore**. Be careful not to tap **End**; doing so will end the current call.

Placing a Call on Hold to Make a Second Call

1. During a call, tap **Hold** to place the first call on hold.
2. Dial a second number or the first few letters of the second contact's name by using the numeric keypad on your device. Then press the **Send** key to connect. Wait for it to be picked up.
3. To end the second call and go back to the first, tap **End**.

Swapping between Calls

When you have put a call on hold and made or taken another call as described earlier, you can swap between the two calls by tapping **Swap**.

Setting up a Conference Call

NOTE: You may need to consult your mobile phone network service for the availability and subscription of the conference call function.

1. When you have put a call on hold and made or taken another call as described earlier, you can set up conference calling by tapping **Menu** → **Conference**.
2. To add additional people to your conference, tap **Hold**. Dial a second number and press the **Send** key to connect. Wait for it to be picked up. Then tap **Menu** → **Conference**.
3. If you want to talk to one of the parties privately during the call, tap **Menu** → **Private**. Select a number, and tap **Private**.

   To include everyone in the call again, tap **Menu** → **Conference**.

Taking a Note during a Call

You can take a note during a call.

1. Tap **Note**.
2. Enter your note and tap **ok**.

To access a note you created during a call:

1. While in the Phone program, tap **Call History**.
2. The icon indicates that the phone call entry contains a note. Tap and hold the name or number for that entry, and tap **View Note** in the shortcut menu.

NOTE: You can also tap → **Programs** → **Notes**, and access the note in the Calls folder.

Using Call History

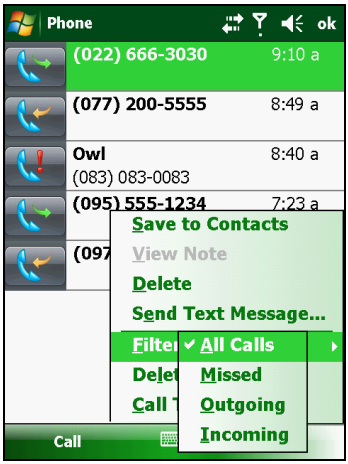
Call History provides the time and duration of all incoming, outgoing, and missed calls, and a summary of total calls. Call History also provides easy access to any notes taken during a call.

To access Call History while in the Phone program, tap **Call History**.

Viewing Call History

You can tap **Menu** → **Filter** to change the Call History view (**All Calls** by default).

- **All Calls**: Displays all calls made to and from your device in a chronological order.
- **Missed** ( ): Displays only calls that were not answered.
- **Outgoing** ( ): Displays only calls made from your device.
- **Incoming** ( ): Displays only calls made to your device.



To see the time, date and duration of a call, tap the item on the list to view details.

To clear all items on the list, tap **Menu** → **Delete All Calls**.

Adding an Entry to Contacts Using Call History

You can add a phone number in the Call History to Outlook Contacts or SIM Contact.

1. Tap and hold the entry you wish to transfer, and tap **Save to Contacts** in the shortcut menu.
2. Tap **<New Contact>** and select a contact type.
3. Enter the contact's name, and select the proper number type.
4. Tap **Save** to save the entry.

Using Speed Dial

You can create Speed Dials for frequently-called phone numbers so you can dial a number with a single key press.

Creating a Speed Dial Entry

Speed dials can only be created for numbers stored in Contacts.

1. While in the Phone program, tap **Speed Dial**.
2. Tap **Menu** → **New**.
3. Tap the desired contact.
4. In **Name**, accept the current name or change it if you want to.
5. In **Number**, select the phone number if there is more than one number for the contact.

6. If **Location**, accept the current speed dial number or change the number if you want to.
7. Tap **ok** to save the setting.

   The new Speed Dial entry is now on the Speed Dial list. The letter on the lower-right corner of the entry indicates the assigned phone number. For example, "m" indicates the mobile phone number.

NOTE: The first Speed Dial location is reserved for your voice mail.

Editing or Deleting a Speed Dial Entry

1. While in the Phone program, tap **Speed Dial**.
2. Tap the desired entry and tap **Delete**.

   – or –

   Tap and hold on the desired entry, and tap **Delete** in the shortcut menu.
3. Tap **Yes**.

Customizing Your Phone

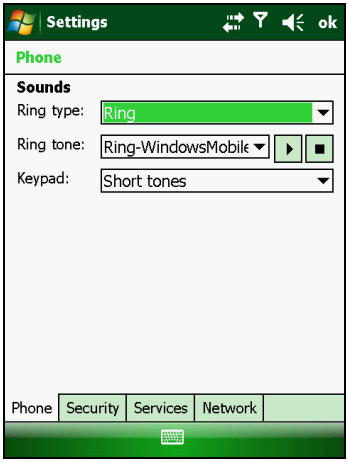
To access the Phone Settings, start the Phone program and tap **Menu** → **Options**.

Changing Phone Settings

Tap the **Phone** tab.

You can customize phone settings, such as the ring type and ring tone to be used for incoming calls, and the keypad tone to be used when entering phone numbers.

NOTE: To use custom .mp3, .wav, or .mid files as ring tones for incoming calls, copy the files to the \Application Data\Sounds folder on your device or to the inserted storage card. Then, select the sound from the Ring Tone list.



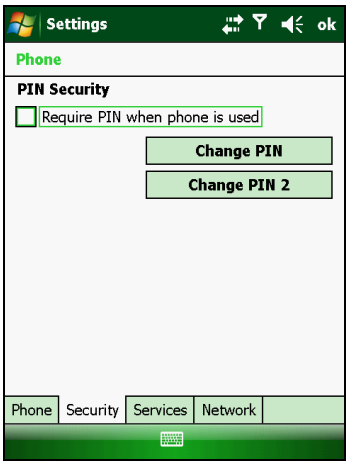
Changing Security Settings

Tap the **Security** tab.

You can protect your phone from unauthorized use.

You might be prompted to enter the PIN2 code for specific functions (such as the pre-paid card's charging counters). Consult your mobile phone network service to check if your SIM card supports PIN2-related functions and services.

NOTE: Emergency calls can be placed at any time without requiring a PIN code.



Changing Services Settings

Tap the **Services** tab.

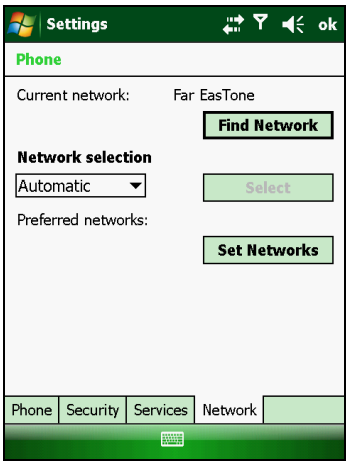
You can access and configure settings for the phone services you subscribed to through your mobile phone network service. For example, you may want to block certain types of incoming and/or outgoing calls, forward incoming calls to a different phone number based on your situation, be notified of incoming calls when you are already in a call, or let others know your identity when making calls. Services available to you depend on your mobile phone network service and the type of your subscription.

To view your services settings, tap a service and then tap **Get Settings**.

Changing Network Settings

Tap the **Network** tab.

You can view available wireless networks, determine the order in which your phone accesses another network if the current one is unavailable, and specify whether you want to change networks manually or automatically. The current network will remain active until you change it, lose your signal, or change your SIM card.



Additional Phone Operations

Using Text Messages

Text messages are automatically received when your phone is switched on. The Today screen shows if there are new text messages. You can tap the section to open the message list.

To send a text message, you can do one of the followings:

- First select a phone number from a program such as Phone or Contacts. Then select **Send Text Message** from the shortcut menu or soft key.
- First start the Messaging program. Then select the phone number.

See “Reading Text Messages” and “Composing and Sending a Text Message” in Chapter 5 for more information.

Setting up an Internet Connection

You can set up an Internet connection using the mobile network. See “Using Cellular Connection (Select Models Only)” in Chapter 7 for information.

Checking Your Voice Mail

The first position in your speed dial list defaults as your voice mailbox. When you insert your SIM card, your device automatically detects your voice mailbox number and sets it to the first position in your speed dial list.

Making an Emergency Call

You can use your device to dial the international emergency number 112. This number can normally be used to make an emergency call in any country with or without a SIM card inserted, as long as you are within a mobile phone network.

Some mobile phone network services may require that a SIM card be inserted, and in some cases that the PIN be entered.

There may be other emergency numbers available. Your mobile phone network service may save additional local emergency numbers in the SIM card.

Dialing an International Call

When you are manually dialing a number, tap and hold on the number key 0 until the + sign appears. The + sign replaces the international prefix of the country from where you are calling.

Enter the full phone number you want to dial including country code, area code (without the leading area code zero) and local phone number.

Chapter 4

Managing Your Device

This chapter tells you how to effectively manage power, settings, data and programs of your device.

Managing Power

A fully charged battery should provide power for up to 8 hours of use. The operating time of a fully charged battery depends on how you are using the device. Some functions, such as using multimedia or operating a SD/MMC card, may consume the battery power considerably.

Low Battery Signals and Actions

CAUTION: When you recharge the battery upon a warning of low power, you should charge for at least 30 minutes. If you unplug the AC charger soon, you may not have sufficient battery power for your operation.

You can monitor the battery power by tapping → **Settings** → **System** → **Power**. The remaining power is displayed on a status bar in the Power control panel.

When the battery is low, your device will pop up a warning message and a beep will sound. You should save your data and recharge the battery immediately upon a warning of low power; otherwise your device will turn

off automatically. You need to connect the device to external AC power for charging before you can use it again.

Power-Saving Tips

Follow these suggestions to maximize the battery's operating time, particularly when you are relying solely on the battery power for extended time periods.

- Suspend frequently.
  By default, the screen backlight will automatically dim out and the device will also suspend when it has been idle for a period of time. You can shorten the length of the idle time using → **Settings** → **System** → **Power** → **Advanced** to set up.
  Press the power button to suspend your device when it is not in use, even for a short time.

- Turn off functions not needed or adjust settings.
  - ✓ Lower the volume.
  - ✓ Do not enable sounds or light flashing except for the most necessary notifications. (Tap → **Settings** → **Personal** → **Sounds & Notifications** to set up.)

- Avoid power-consuming situations such as:
  - ✓ Using a modem or other peripheral
  - ✓ Playing sound or music
  - ✓ Recording
  - ✓ Using or monitoring wireless signals

Customizing Your Device

NOTE: Incorrect settings may cause your system to malfunction. Make sure that you fully understand the function of a certain item before any adjustment.

You can customize the settings of the device to your own preferences. Tap → **Settings**. Then tap the **Personal**, **System** or **Connections** tab.

Settings – Personal

Item	Description
Buttons	To assign programs to hardware buttons (**F1** and **F2**) and set the repeat rate of the up/down control.
Input	To set up items related to the input methods and voice recording format.
Lock	To set a password for security. (See "Securing Your Device" in Chapter 2 for more information.)
Menus	To customize what appears on the Start menu.
Owner Information	To enter your personal information.
Phone	To customize the phone function. (See "Customizing Your Phone" in Chapter 3 for more information.)
Sounds & Notifications	To set the conditions and types of the sounds, system volume and ways of notifications.
Today	To select the information you want displayed on the Today screen and to select a desired theme for the background.

Settings – System

Item	Description
About	To show the hardware information of your device and to define the name that your device uses for identifying itself to other computers.
Backlight	To adjust the brightness level of the display and to set the automatic turnoff for power saving purposes.
Certificates	To establish your identity or the identity of other computers. This helps prevent unauthorized users from accessing your device and information.
Clock & Alarms	To change the time and date and to set alarms.
Customer Feedback	To set if you want to send your feedback on using the Windows Mobile software.
Encryption	To set if you want to encrypt files placed on storage cards. The encrypted files will be readable only on this device.
Error Reporting	To enable or disable error reporting. Error Reporting sends information needed by technical support groups to diagnose a program error for a device running Windows Mobile software.
GPS	To configure the GPS hardware settings and manage GPS.
Managed Programs	To manage the programs you installed.
Memory	To display the allocation between storage and program memory, to view the memory on the storage card (if installed) and to manually stop a program if it becomes unstable or program memory is low.
Power	To show the remaining battery power and to set the time for the device to turn off automatically.
Regional Settings	To specify the region of your location and the formats of the number, currency, time and date.

Item	Description
Remove Programs	To remove programs you added to the memory of your device.
Screen	To set the orientation of the screen to portrait or landscape.
	To adjust the touch screen for accurate screen taps.
	To enable the ClearType feature for easier reading of text in programs that support ClearType.
	To adjust the text size to see more content or increase the readability in many programs.
Serial Port Switch	To specify the use of Expansion Port or RS232 serial port.
System Information	To display the system information.
Task Manager	To display the information about the system performances and the detailed information of the running programs on your device. You can also end or manage the running programs in Task Manager.
Windows Update	To set how you want your device to check for important updates.

Settings – Connections

Item	Description
Beam	To receive information and files via Bluetooth technology.
Bluetooth	To set up or change the Bluetooth connection.
Connections	To set up or change connection information.

Item	Description
Domain Enroll	To connect your device with company resources. You will need the enrollment password provided by your system administrator.
USB to PC	To change the type of USB connection your device is using and to enable advanced network functionality.
Wi-Fi	To search for wireless networks and configure the wireless network module.
Wireless Manager	To change the Wi-Fi, Bluetooth, and Phone radio status.

Searching and Organizing Information

The Search feature on your device helps you quickly locate information.

To search a file, tap → **Programs** → **Search**. Enter the text you want to find, select a data type and then tap **Search** to start the search.

You can also use the File Explorer to find files on your device and to organize these files into folders. Tap → **Programs** → **File Explorer**.

NOTE: You can move files in File Explorer by tapping and holding the item you want to move, tapping **Cut** or **Copy** on the shortcut menu, browsing to the new location and then tapping **Paste**.

Chapter 5

Microsoft Pocket Outlook

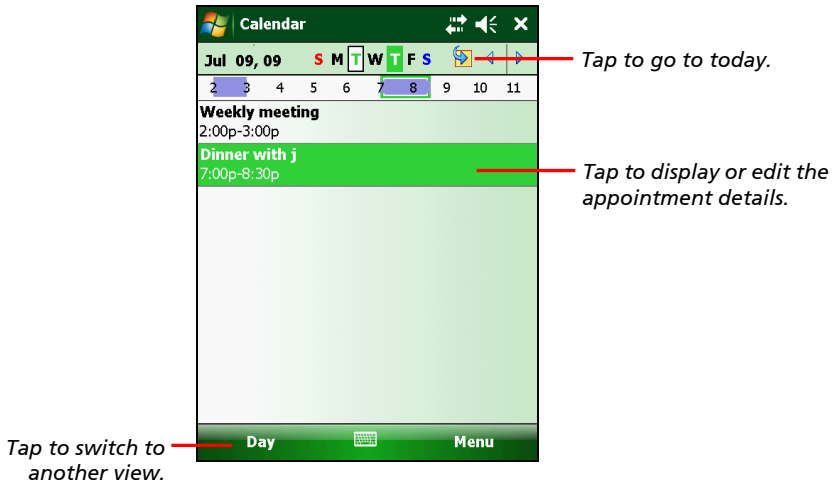
Microsoft Pocket Outlook includes Calendar, Contacts, Tasks, Notes, and Messaging. You can use these programs individually or together. For example, e-mail addresses stored in Contacts can be used to address e-mail messages in Messaging.

NOTE: For detailed information on using Microsoft programs, tap → **Help**.

Calendar: Scheduling Appointments and Meetings

Use Calendar to schedule appointments, including meetings and other events. You can check your appointments in one of several views (Agenda, Day, Week, Month and Year), and set Calendar to remind you of appointments with a sound or other methods. Appointments for the day can be displayed on the Today screen.

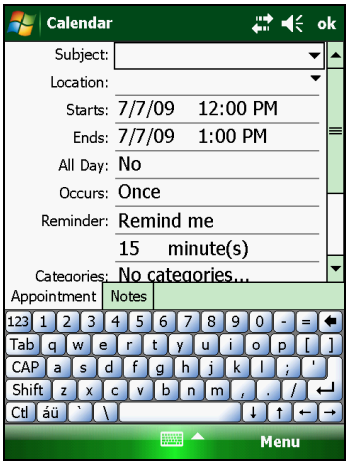
Tap → **Calendar**.



NOTE: You can customize the Calendar display (for example, change the first day of the week), by tapping **Menu →Tools →Options**.

Creating an Appointment

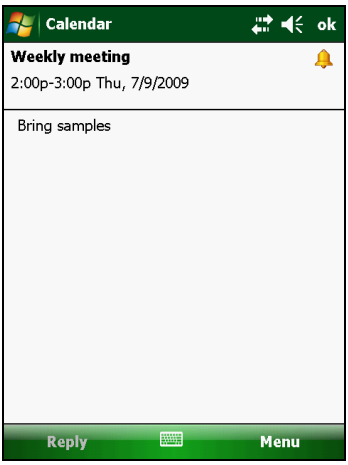
1. In Day or Week view, tap the desired date and time for the appointment.
2. Tap **Menu → New Appointment**.
3. Using the Input panel, tap first to select the field, and then enter a description and a location.
4. Enter other desired information. You will need to hide the Input panel to see all available fields.
5. Tap **ok** to save and return to Calendar.



Using the Calendar Summary Screen

When you tap an appointment in Calendar, a summary screen is displayed. To change the appointment, tap **Menu** → **Edit**.

NOTE: If you receive a meeting request, you can tap **Reply** to send an e-mail to the meeting host.

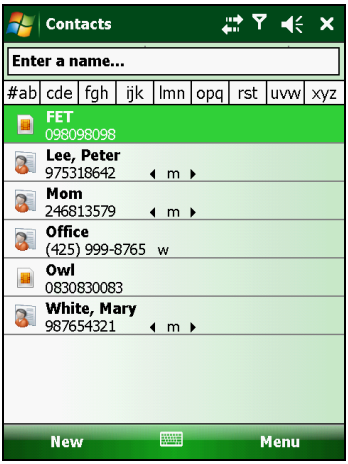


Contacts: Tracking Friends and Colleagues

Contacts maintains a list of your friends and colleagues so that you can easily find the information you are looking for, whether you are at home or on the road.

Tap → **Contacts**. The Contacts list appears.

For models with the phone function, contacts stored in the SIM card also appear in the list (indicated by the icon).

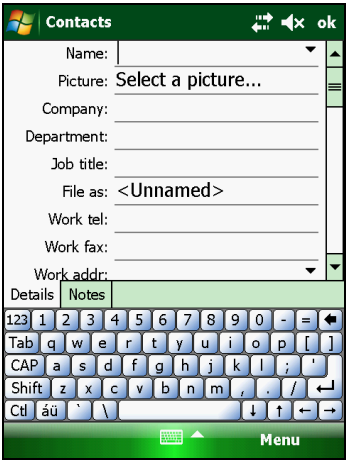


Creating a Contact

1. In Contacts, tap **New**.
2. For models with the phone function, you will be asked to select Outlook contact or SIM contact if the phone function is switched on.
3. Using the Input panel, enter a name and other contact information. You will need to scroll down to see all available fields.

NOTE: You can only set the contact's name and phone number for a SIM contact.

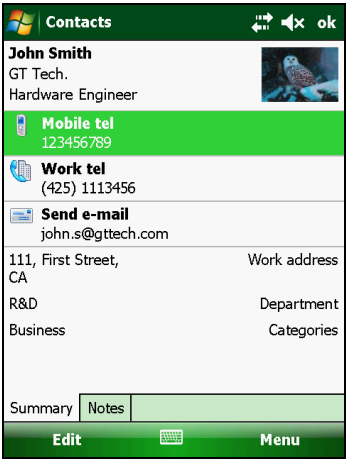
4. Tap **ok** to save and return to the contact list.



Using the Contacts Summary Screen

When you tap a contact on the contact list, a summary screen is displayed. To change the contact information, tap **Menu → Edit**.

NOTE: You can manage SIM contacts only when the phone function is turned on (select models only).



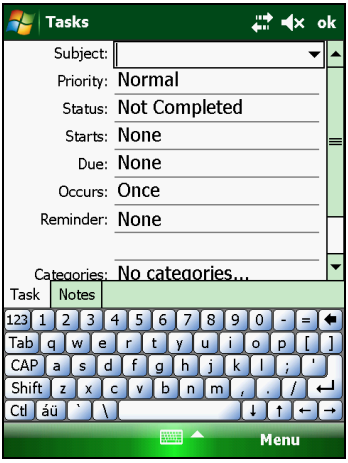
Tasks: Keeping a To Do List

Use Tasks to keep track of what you have to do.

Tap → **Programs** → **Tasks**.

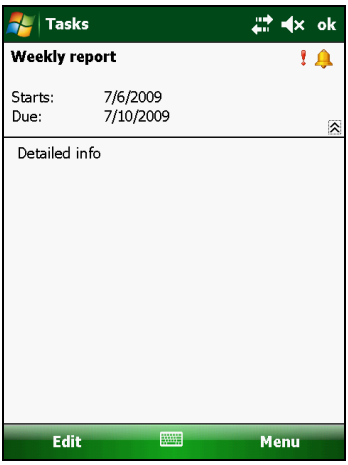
Creating a Task

1. In Tasks, tap **Menu** → **New Task**.
2. Using the Input panel, enter a description.
3. You can enter a start date and due date or enter other information by first tapping the field. If the Input panel is open, you will need to hide it to see all available fields.
4. Tap **ok** to save and return to the task list.



Using the Tasks Summary Screen

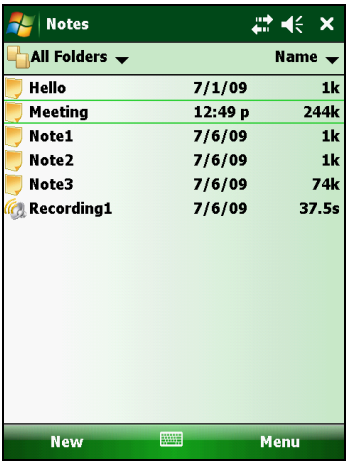
When you tap a task on the task list, a summary screen is displayed. To change the task, tap **Edit**.



Notes: Capturing Thoughts and Ideas

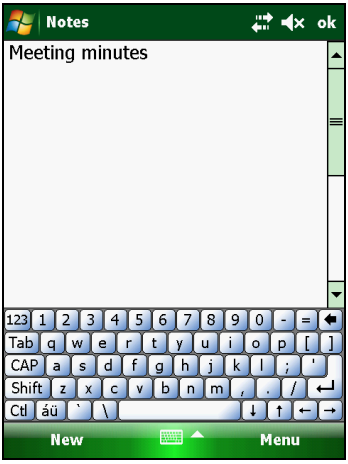
Quickly capture thoughts, reminders, ideas, drawings and phone numbers with Notes. You can create a written note or an audio recording. You can also include a recording in a note.

Tap → **Programs** → **Notes**.



Creating a Note

1. In Notes, tap **New**.
2. Create your note by writing, drawing, typing, or recording.
3. Tap **ok** to save and return to the note list.



Messaging: Sending and Receiving Messages

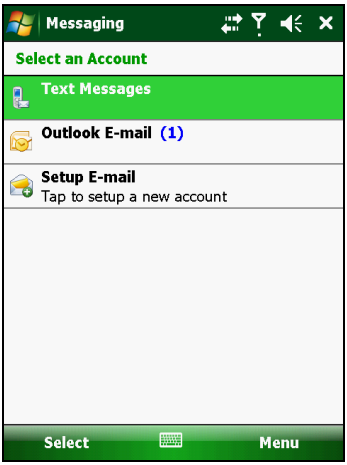
You can work with e-mail and text messages (select models only) from Messaging.

Tap → **Messaging**. The account selection screen appears.

About Accounts

You can use multiple services to send and receive messages. For different ways of accessing messages, there are different types of account:

- **Text Messages** (select models only): This item appears if your model comes with the phone function.
- **Outlook E-mail**: This item appears if you have synchronized directly with a Microsoft Exchange Server account or with Microsoft Outlook on your computer.
- **An Internet account**: You have to manually set up such an account. This type of account depends on a service provider or a mobile operator (select models only) to provide the messaging services that enable you to send and receive e-mail over the Internet.



Setting up an Internet E-mail Account

You can set up only one Outlook account on your device. However, you can set up multiple Internet e-mail accounts.

1. Tap → **Messaging**.

2. Tap **Setup E-mail** on the account selection screen.
3. Follow the on-screen instructions to complete the setup.

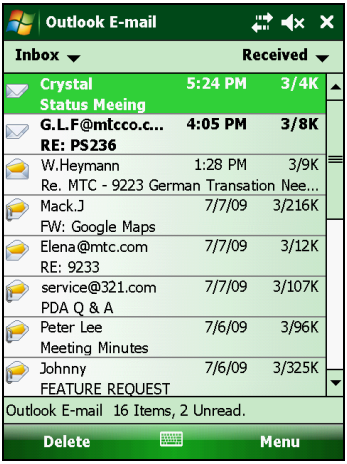
   During setup, you can enable Auto Setup to search for and enter the settings of the e-mail account with which you want your device to synchronize. If Auto Setup does not find the settings, you may have to ask your ISP, mobile operator, or system administrator for the correct settings, and then enter them yourself.

Reading E-mail Messages

When you connect to your email server or synchronize with your desktop computer or server, by default, you will receive messages from the last three days only and the first 2 KB of each new message, and not to sync file attachments. The original messages remain on the server or your desktop computer.

To read E-mail messages:

1. Tap → **Messaging**.
2. Tap the account you want to use on the account selection screen.
3. Messages you receive are displayed in the message list. Tap an item to open it.



Composing and Sending an E-mail

1. Tap → **Messaging**.
2. Tap the account you want to use on the account selection screen.

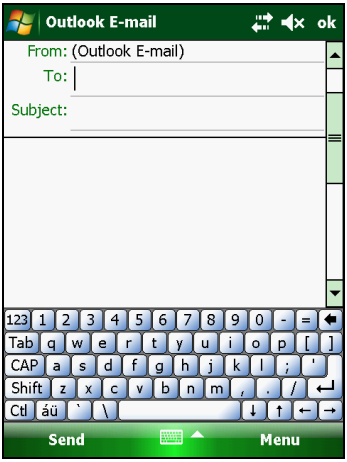
3. Tap **Menu** → **New**.

NOTE: You can also send an e-mail message by selecting a contact with an e-mail address from another program such as Contacts or Phone. Then select **Send e-mail** from the shortcut menu or soft key.

4. Enter the e-mail address of one or more recipients, separating them with a semicolon. To access addresses from Contacts, tap **To**.

5. Enter your message and subject. To quickly add common messages, tap **Menu** → **My Text**, and tap a desired message.

6. To add an attachment to the E-mail message, tap **Menu** → **Insert**, and tap the item you want to attach: **Picture**, **Voice Note**, or **File**. Then select the file you want to attach or record a voice note. Embedded objects cannot be attached to messages.



7. Tap **Send**.

NOTE: If you are working offline, e-mail messages are moved to the Outbox folder and will be sent the next time you connect.

Reading Text Messages (Select Models Only)

Text messages are automatically received when your phone is switched on. The Today screen shows if there are new text messages. You can tap the section to open the message list.

To manually open the message list:

1. Tap → **Messaging**.

2. Select **Text Messages** on the account selection screen.

3. The message list appears. Select the item you want to read.

Composing and Sending a Text Message (Select Models Only)

1. Tap → **Messaging**.
2. Select **Text Messages** on the account selection screen.
3. Tap **Menu** → **New**.

NOTE: You can also send a text message by selecting a phone number from another program such as Contacts or Phone. Then select **Send Text Message** from the shortcut menu or soft key.

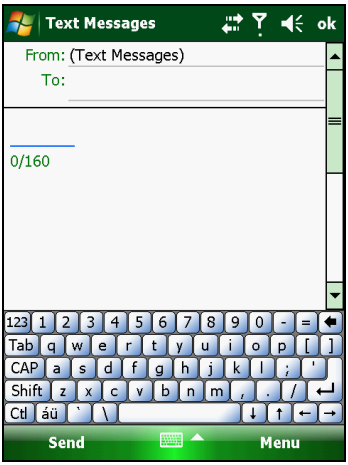
4. Enter the phone number of one or more recipients, separating them with a semicolon.

   To select phone numbers from Contacts, tap **To**.

5. Enter your message.

   To quickly add common messages, tap **Menu** → **My Text**, and tap a desired message.

6. Tap **Send**.



Chapter 6

More Programs

In addition to Microsoft Pocket Outlook, there are other programs built into your device. This chapter tells you how to use these programs.

NOTE: For detailed information on using Microsoft programs, tap → **Help**.

ActiveSync

ActiveSync on your device works with ActiveSync on a Windows XP computer and with Windows Mobile Device Center on a Windows Vista/Windows 7 computer.

When you have established the connection between your device and your computer, you can synchronize the information between the two with ActiveSync. Synchronization compares the data on the two sides and updates both computers with the most recent information. For example, you can:

- Keep your Pocket Outlook Contacts, Calendar and Tasks databases up-to-date by synchronizing your device with Microsoft Outlook data on your computer.
- Synchronize e-mail messages in your device Outlook Inbox with e-mail messages in Microsoft Outlook on your computer.
- Synchronize Microsoft Word, Excel and PowerPoint files between your device and computer. Your files are automatically converted to the correct format.

You can select which information types are synchronized and control how much data is synchronized. (See the ActiveSync or Windows Mobile Device Center help on your computer.)

With ActiveSync, you can also:

- Copy (rather than synchronize) files between your device and computer.
- Add and remove programs on your device.
- Pass through your computer to a network or the Internet.

Synchronizing Data

Once you have created a synchronization relationship and completed the first synchronization, you can initiate synchronization from your device.

1. Connect your device to your computer.
2. On your device, tap → **Programs** → **ActiveSync**.
3. Tap **Sync** to begin synchronization.

NOTE: In addition to the USB cable, you can also synchronize by using Bluetooth. (See the ActiveSync or Windows Mobile Device Center help on your computer.)

Synchronizing Directly with Exchange Server

You can increase your productivity when you are away from the office by setting up an account to access e-mail, voice mail, calendar, and contact information from a Microsoft Exchange Server.

Exchange Server, the Microsoft messaging and collaboration server, lets you send and receive your work e-mail, calendar updates, voice mail, and contact information while traveling.

To set up the account, you must obtain the name of the Exchange Server and the server domain from the wireless service provider or system administrator. You must also know your Exchange user name and password.

1. Make sure your device is not connected to your computer.
2. On your device, tap → **Programs** → **ActiveSync**.
3. Tap **Menu** → **Add Server Source**.
4. Follow the on-screen instructions to complete the setup.
5. Connect your device to the Internet for synchronization with Exchange Server.

NOTE:

- If a message pops up asking you to accept security policies for synchronization with Exchange Server, tap **OK** to proceed.
- You may be prompted to set the password for device lock. You can set a longer period of time (maximum of 24 hours) before your device prompts you to enter the password again.
- To disable the Direct Push feature, tap → **Programs** → **ActiveSync**. Tap **Menu** → **Options**, uncheck the **E-mail** item and then tap **ok** to save the changes.

Office Mobile

Microsoft Office Mobile works with Microsoft Office on your computer to give you easy access to copies of your documents.

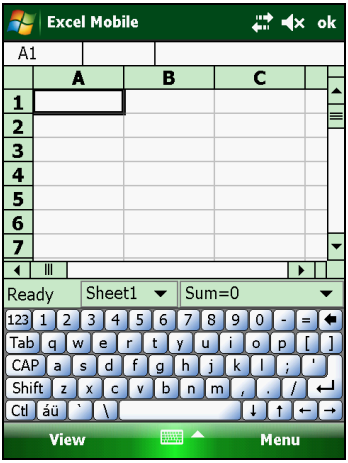
Tap → **Office Mobile** and select the program to use.

- Excel Mobile
- OneNote Mobile
- PowerPoint Mobile
- Word Mobile

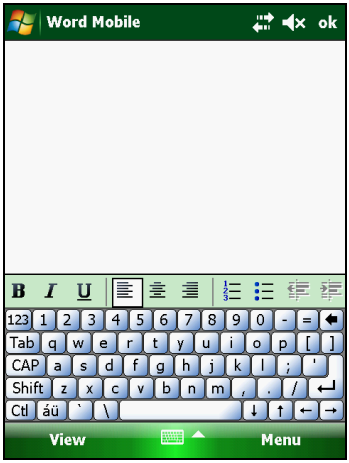
Creating a Document/Workbook/Note

NOTE: You cannot create or edit PowerPoint presentations on your device.

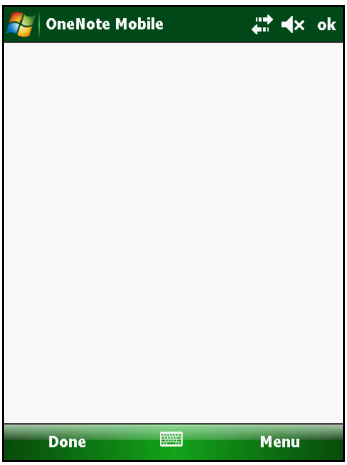
1. Tap → **Office Mobile** and select the program to use.
2. Enter the information.



Excel Mobile



Word Mobile



OneNote Mobile

3. When finished, tap **ok** and the document/workbook/note is automatically saved and named according to the first characters of text entered in the document.

Opening a Document/Workbook/Note/Presentation

Whenever you switch to an Office Mobile program, you will see the file list. Tap the desired file to open it. You can open only one document at a time; when you open a second document, the first will be saved and closed automatically.

Internet Explorer

NOTE: When surfing the Internet, your device uses the default Internet connection in **Settings → Connections → Connections → My ISP** settings. If you want to surf the Internet through Wi-Fi, connect to the wireless network before starting Internet Explorer. (See Chapter 7 for information.)

Tap → **Internet Explorer**. The Internet Explorer Mobile home page appears.

Tap **Favorites** to display the Favorites list. Tap the page that you want to view.

To visit web pages not included in Favorites, in the address bar that appears at the top of the screen, enter the web address you want to visit and then tap . Or, tap the arrow to choose from previously entered addresses.

Windows Live and Messenger

Windows Live lets you wirelessly access many of the features of the Windows Live Web site.

- You can access your Windows Live Hotmail.
- You can access your Windows Live Messenger and contacts.
- You can merge your Messenger contacts with the contacts on your device. From the device contact list, you can access the contacts' Windows Live Spaces and you can initiate an e-mail or an instant message to any contact.
- The Windows Live Search bar can help you find local services, images, and information on the Internet.
- You can send a photo to your Windows Live Space.

NOTE:

- You must have a Windows Live ID and password to use this service.
- To use Windows Live, you must have an Internet connection.

Setting up Windows Live

1. Tap → **Programs** → **Windows Live**.
2. Tap **Sign in to Windows Live.**
3. Tap **Accept** to proceed.
4. Follow the on-screen instructions to complete the setup.

Signing in to Messenger

Before you sign in to Messenger, you need to sign in to Windows Live first.

1. Tap → **Programs** → **Messenger**.

2. Tap **Sign in**.

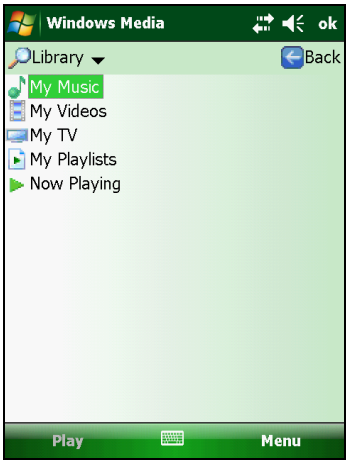
NOTE: To sign out from Messenger, tap **Menu** → **Sign out**.

Windows Media

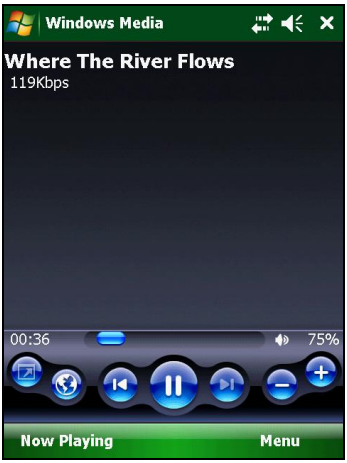
Use Microsoft Windows Media Player Mobile to play digital audio and video files that are stored on your device or on a network, such as on a web site.

You can play files in either Windows Media or MP3 format (including files with the extensions .asf, .wma, .wmv and .mp3).

Tap → **Programs** → **Windows Media**.



Library Screen



Playback Screen

Use Microsoft Windows Media Player on your computer to synchronize (if using Windows Media Player 10) or copy (if using Windows Media Player 9) digital audio and video files from your computer to your device.

For more information, tap → **Help**, or see Windows Media Player Help on the computer.

Pictures & Videos

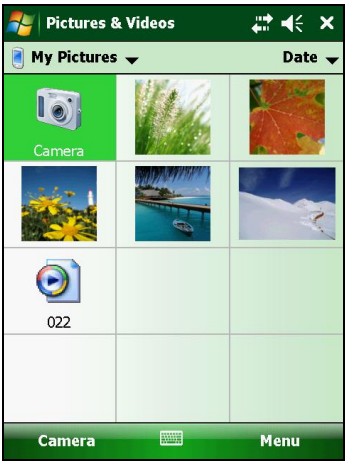
With Pictures & Videos, you can:

- View pictures and video clips.
- Send pictures and videos to others.
- Set a picture as the background on the Today screen.
- Play slide show.
- Edit your pictures.

Viewing Pictures and Videos

1. To view pictures or video stored on a storage card, insert the card.
2. Tap → **Programs** → **Pictures & Videos**.

   By default, the program displays thumbnails of the pictures and videos in the **My Pictures** folder, within the **My Documents** folder on your device.
3. Thumbnails of pictures and videos appear on the screen. You can tap one of them to view in full screen.



Getac Camera

Overview

Getac Camera is a geo-tagging camera program, which allows you to stamp geographical information on photos as watermarks and embed such information into JPEG files as EXIF 2.2 metadata.

To start the program, press the **Camera** key on your device or tap → **Getac Camera**. The GPS positioning will be automatically activated. When the GPS positioning is completed, you will see the geographical information in the watermark area on the screen.

Screen Elements	Descriptions	
Status Bar	Displays the current status.	
	004/999+	Number of pictures already taken / Total number of pictures allowed. (Maximum number shown is 999 even if the storage capacity allows for more.)

Screen Elements	Descriptions		
Status Bar			Current zooming level.
			Current shooting mode: Normal/Burst/Timer
			Current white balance: Automatic/Sunshine/ Cloudy/Fluorescence/Incandescence
Live Image	Displays the live image.		
Watermark	Displays the GPS information such as direction, GPS status, longitude, latitude, altitude, date, time, and speed.		
	GPS Signals		No or poor GPS signals.
			GPS positioning completed.
	Compass		Letters in red: GPS information not available or compass not calibrated.
			Letters in white: GPS or compass information available.
Instant View	Displays the picture you have just taken or selected. The left part contains the preview image and the right part contains the properties of the image.		

To exit the program, tap at any time.

NOTE:

- The scroll bar on any Getac Camera screen is an indicator only; it is not intended for tapping and dragging operations.
- If the message "Not enough memory available for attempted operation. Please check system memory." appears, try one of the below to free the memory of your device.
  - Stop programs you are not currently using.
  - Set the resolution of the images to a lower one.

Taking Pictures

1. Start the Getac Camera program. You will be in Camera Mode.
2. For camera controls such as brightness and zooming, tap **Menu**. (See "Camera Mode Settings" later for more information.)
3. Aim the camera lens at the subject.
4. For automatic focusing, press the **Camera** key halfway down. A white frame appears. Wait until the color of the frame turns green indicating the subject is in focus.
5. To take the picture, use one of the three methods:
   - Press the **Camera** key fully.
   - Press the **Action** key.
   - Tap and hold the Live Image area.
6. The message Saving... appears on the screen for a few seconds, meaning the picture is saved to the predefined storage location.

NOTE: Always wait for the saving procedure to complete before giving the next command. An untimely command can be lost, especially in Burst mode.

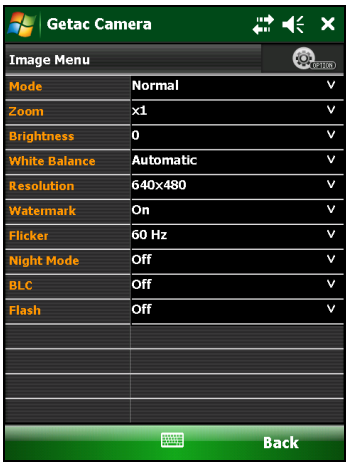
7. The result shows in the Instant Image area below. You can tap the area twice to switch to Brower Mode for the full view. (See "Browser Mode" later for more information.)

Camera Mode Settings

To change camera settings, tap **Menu** while in Camera Mode.

Tap the down arrow of the item you want to adjust. In the pull-down menu, tap your choice. When finished, tap **Back** and then **Yes**.

All changes (except for **Mode**) remain effective until you change them again.



* *The above screen shows the default settings.*

Menu Items	Descriptions	
Mode	Three choices for the shooting mode:	
	Normal	This is the default setting whenever the program is started.
	Burst	Continuous shooting of 3 pictures.
	Timer	5 second countdown before shooting.
Zoom	Available choices depend on the current resolution setting.	
	x1	Available for all.
	x2	Available under 640x480 resolution setting.
Brightness	Seven brightness levels.	
White Balance	Five choices (**Automatic**, **Sunshine**, **Cloudy**, **Fluorescence**, and **Incandescence**) from which you can select one that matches the current light source.	

Menu Items	Descriptions
Resolution	Four choices (**640x480**, **1280x960**, **1600x1200**, and **2048x1536**). When set to a resolution higher than 640x480, the zoom level is limited to x1.
Watermark	**On** or **Off**. Set to **Off** if you do not want the watermark to show in the picture. (This does not affect the embedded EXIF 2.2 metadata.)
Flicker	Set to the frequency of the local electrical system (**60Hz** or **50Hz**) for flicker free shooting under electric light.
Night Mode	**On** or **off**. Set to **On** for shooting in low light situations.
BLC	**On** or **off**. Set to **On** to correct the exposure of subjects that are in front of a bright light source.
Flash	**On** or **off**. Set to **On** to add extra light for shooting in a dark place.

Viewing Pictures

There are different ways to view pictures and data. On some occasions, you can drag up/down or left/right on the screen to access the pictures and data more easily.

Instant View

While in Camera Mode, the picture taken is immediately shown in the Instant View area with properties information.

In this view, you can:

- Tap the image twice to switch to Standard View.
- Tap the properties list twice to switch to Properties View.

- Go to the previous or next picture by any of the three methods:
  - Drag across the image: from left to right for the previous picture and vice versa.
  - Press the left or right arrow key (with Fn lock) for the previous or next picture.

  - Tap the image and, when ◀ and ▶ icons appear on both sides, tap the left or right arrow to go to the previous or next picture.
- View all properties of the current picture by drag down or up in the properties list on the screen.

Browser Mode

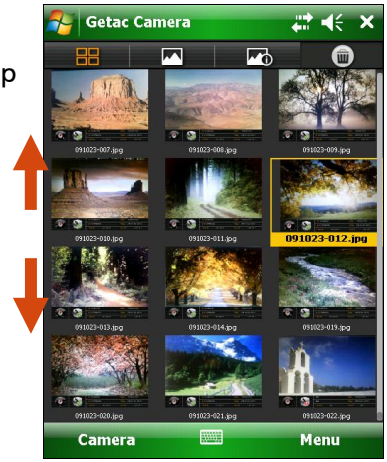
While in Camera Mode, tapping **Thumbnail** brings you to Browser Mode. To switch back to Camera Mode, tap **Camera**.

Browser Mode has three views (Thumbnail, Standard, and Properties) as described below.

Thumbnail View

Thumbnail is the default view of Brower Mode, showing 12 preview images at one time.

In this view, you can:



- Scroll down or up by dragging down or up on the screen.
- Go up/down/left/right one picture by pressing the arrow key (with Fn lock).
- Switch to Standard View of the selected picture by any of the two methods:
  - Tap the picture twice.
  - Tap .
- Switch to Properties View of the selected picture by tapping .

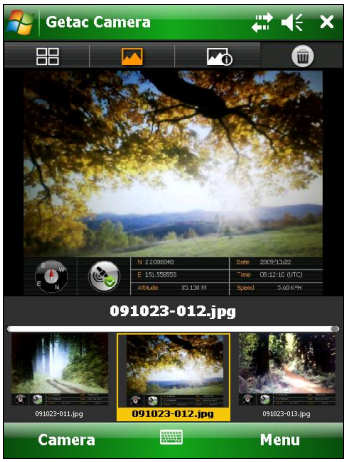
- Delete the selected picture by tapping and then **Yes**.

Standard View

In Camera Mode, tapping the image twice in the Instant View area brings you to Standard View. If you are currently in Thumbnail or Properties View, tap to switch to this view.

The selected picture is shown in the upper part of the screen. The lower part of the screen contains the strip of pictures; three small pictures (previous, current, and next) are shown at a time.

In this view, you can:



- Go to the previous or next picture by any of the three methods:
  - Tap the left or right picture in the Strip area.
  - Press the left or right arrow key (with Fn lock) for the previous or next picture.
  - Tap the left or right edge of the image and, when and icons appear on both sides, tap the left or right arrow to scroll to the previous or next picture.
- Switch to Thumbnail View by tapping .
- Switch to Properties View of the selected picture by tapping .
- Delete the current picture by tapping and then **Yes**.

Properties View

In Camera Mode, tapping the properties list twice in the Instant View area brings you to Properties View. If you are currently in Thumbnail or Standard View, tap to switch to this view.

The information of the selected picture is shown in the upper part of the screen. The lower part of the screen contains the strip of pictures; three small pictures (previous, current, and next) are shown at a time.

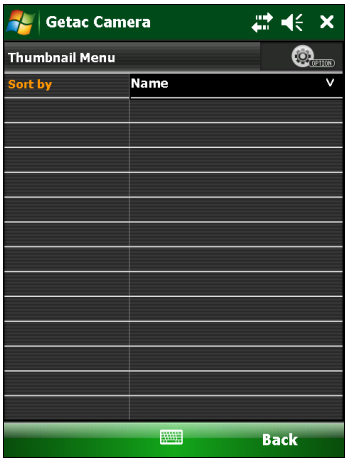
In this view, you can:

- View all properties of the current picture by drag down or up within the properties list on the screen.
- Go to the properties of the previous or next picture by any of the three methods:
  - Tap the left or right picture in the Strip area.
  - Press the left or right arrow key (with Fn lock) for the previous or next picture.
  - Tap the left or right edge of the properties list, and, when and icons appear on both sides, tap the left or right arrow to scroll to the previous or next picture.
- Switch to Thumbnail View by tapping .
- Switch to Standard View of the selected picture by tapping .
- Delete the current picture by tapping and then **Yes**.

Sorting Order

By default, the pictures are sorted by name in Browser Mode. You can change the sorting order to size or date.

To change the sorting order, tap **Menu** while in any of the three views. Tap the down arrow and, in the pull-down menu, tap your choice. Tap **Back** and then **Yes** when finished.

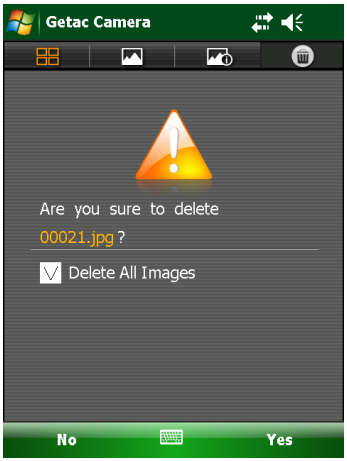


Managing Images

Deleting All Images

If you want, you can delete all images by tapping in any of the three views, check the **"Delete All Images"** item, and tap **Yes**.

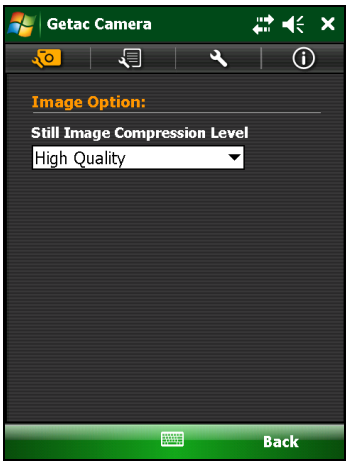
CAUTION: Deleted images cannot be restored.

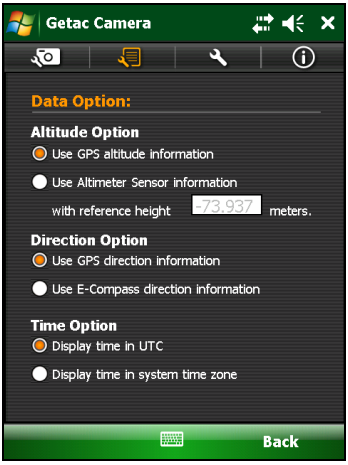


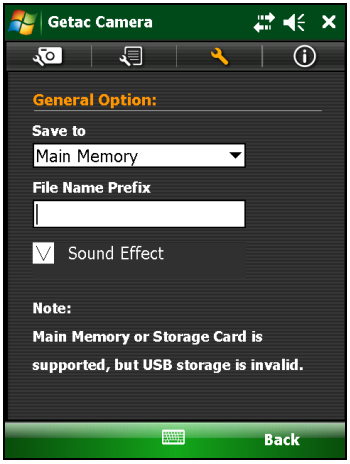
Options

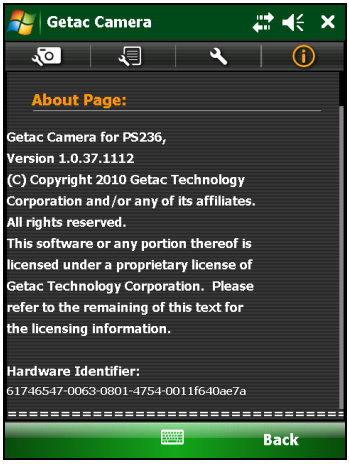
To select options for the camera, tap **Menu** and then tap

. There are four pages as described below.









* *The above screens show the default settings.*

Page	Setting Items	Descriptions	
Image Option	**Still Image Compression Level**	Three choices: **High Quality**, **Normal Quality**, and **Low Quality**. A higher setting means a larger file size.	
Data Option	**Altitude Option**	Displays altitude according to one of the two choices:	
		GPS	The altitude is based on GPS altitude information.
		Altimeter Sensor	The altitude is based on the altimeter sensor built into your device. You can use the value calculated by your device or manually input a value (between -4000 and 4000).
	Direction Option	Displays direction according to one of the two choices:	
		GPS	The direction is based on GPS direction information.
		E-Compass	The direction is based on the electronic compass built into your device. **NOTE:** Make sure to calibrate the compass for accurate information. (See "錯誤! 找不到參照來源。" later in this chapter to know how to calibrate.)
	Time Option	Displays the time throughout the program according to one of the two choices:	
		UTC	The time is based on Coordinated Universal Time.
		System time zone	The time zone setting of the device is taken into consideration. If the current location is in daylight saving time, the time will be adjusted

			accordingly.
Page	**Setting Items**	**Descriptions**	
General Option	**Save to**	Sets the storing and retrieving location to one of the choices:	
		Main Memory	This is the device's **My Documents/My Pictures** folder.
		Extended Storage	This is the device's **Extended Storage** folder. Your device incorporates extra memory in addition to the main memory.
		Storage Card	This choice appears only when a storage card is inserted.
	File Name Prefix	By default, the filename is *xxxxx* (where *xxxxx* is a sequential number). You can add a prefix to the filenames (default is no prefix). Type the characters in the entry field. Maximum number of characters allowed is 3.	
	Sound Effect	Sets if the program will play sounds for screen tapping and photo shooting. (This setting is independent of the "Sound and Notifications" settings of Windows Mobile.)	
About		Provides copyright and licensing information of the program.	

Tap **Back** and then **Yes** when finished. The changes remain effective until you change them again.

Internet Sharing (Select Models Only)

Using Internet Sharing, you can use your device as an external modem for the computer via the USB or Bluetooth connection.

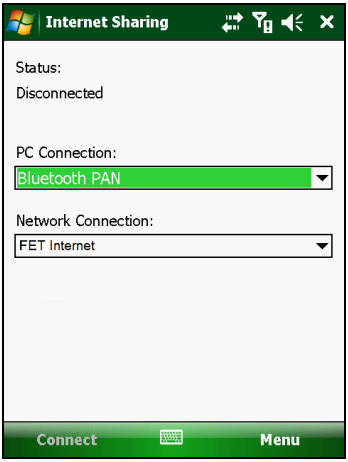
NOTE: The Internet Sharing function does not support Windows 98.

1. Make sure that your device is not connected to another device, and that you have installed proper GPRS settings.
2. To use USB connection, connect your device to the computer with the USB cable.

   To use the Bluetooth connection, you must first initiate and complete the Bluetooth Personal Area Network (PAN) partnership on the computer. (For more information, refer to Windows Help and Support.)
3. Tap → **Programs** → **Internet Sharing**.
4. In **PC Connection**, select **USB** if using USB connection.

   Select **Bluetooth PAN** if using Bluetooth connection. When prompted to make your device as visible in the Bluetooth settings, tap **Yes**.
5. In **Network Connection**, select your GPRS setting (select models only).
6. Tap **Connect** for your device to connect to the Internet.

   Now your computer connects to the Internet via your device.



7. To end the connection, tap **Disconnect** on your device.

Remote Desktop Mobile

Using **Remote Desktop Connection**, you can log on to a Windows Terminal Server and use all programs installed on this server.

NOTE: You can only access a remote computer on which the Terminal Services or Remote Desktop program has been installed.

To connect to a remote computer:

1. Tap → **Programs** → **Remote Desktop Mobile.**
2. Select the computer. Enter the user name, password, and domain.
3. Tap **Connect.**

Other Programs

Other programs refer to programs installed by Getac.

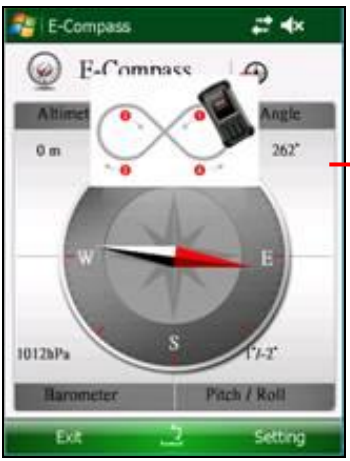
E-Compass

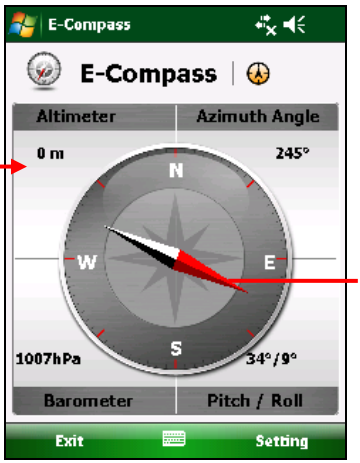
The E-Compass program shows directions of movement including heading, pitch angle, roll angle, and altitude.

Reading and Calibrating the Compass

To run the program, tap → **Programs** → **E-Compass**.

Each time you start the program, you'll be requested to calibrate the compass. Hold the device in your palm and swing it in the way as shown in the small popup window on the screen. Do this several times until the popup window disappears.





Needle on the compass dial

To exit the program, tap **Exit** at the bottom left of the screen.

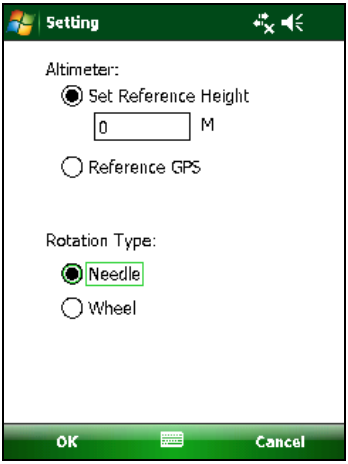
NOTE: Follow these guidelines when using the compass.

- Keep the device away from objects that generate magnetic fields, such as cars, large belt buckles, computers, cell phones, etc.
- If you must use the compass inside a car, the device should be at least 20 cm (7.87 inches) away from metal objects such as car doors, dashboard, air vents, etc.
- Avoid playing the MP3 music with the internal speaker or connecting the AC adapter. This will cause the magnetic interference to the compass.
- Regularly set the reference altitude for an accurate output. (See the next section.)

Compass Settings

The value of altitude is adjusted according to the change in the ambient pressure. It is important that you regularly set the reference altitude because the compass needs an appropriate starting point (altitude versus ambient pressure) for future adjustments.

To configure the compass, tap **Setting** → **Setting**. When finished, tap **OK** to save the changes and go back to the Compass screen.



Setting Items	Descriptions
Altimeter	Set the reference altitude for the compass. You can either set a specific height (zero by default) or use GPS positioning as the reference (GPS positioning will be initiated after you tap **OK**).
Rotation Type	Set to **Needle** for a pivoting needle on a fixed dial or **Wheel** for a fixed needle on a rotating dial.

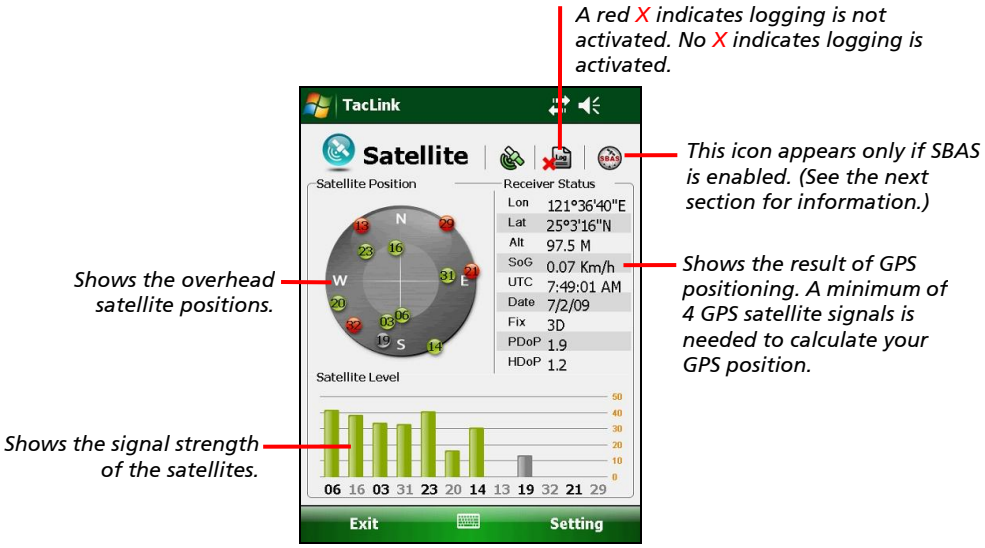
TacLink

The TacLink program receives GPS satellite signals to calculate the location of your device. You can also record a NMEA log file for the use of other applications.

NOTE: TacLink only supports NMEA format. TacLink will not start if you have set the GPS output format to **Binary Mode** in → **Settings** → **System** → **GPS** → **Mode** for the need of third party programs.

Running TacLink

To run the program, tap → **Programs** → **TacLink**.


A red X indicates logging is not activated. No X indicates logging is activated.
This icon appears only if SBAS is enabled. (See the next section for information.)
Shows the result of GPS positioning. A minimum of 4 GPS satellite signals is needed to calculate your GPS position.
Shows the overhead satellite positions.
Shows the signal strength of the satellites.
TacLink
Satellite
Satellite Position
Receiver Status
Lon 121°36'40"E
Lat 25°3'16"N
Alt 97.5 M
SoG 0.07 Km/h
UTC 7:49:01 AM
Date 7/2/09
Fix 3D
PDoP 1.9
HDoP 1.2
Satellite Level
06 16 03 31 23 20 14 13 19 32 21 29
Exit
Setting

A message appears if positioning is not completed in 10 minutes.

To exit the program, tap **Exit** at the bottom left of the screen.

NMEA Log

To start logging, tap **Setting → Log → Start**. To stop, tap **Setting → Log → Stop**.

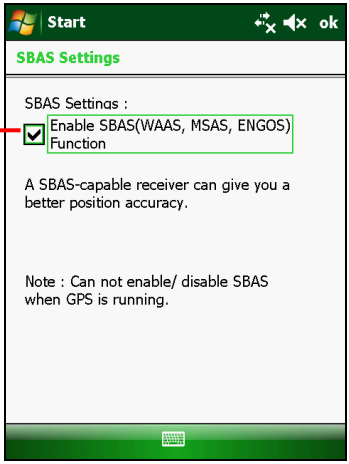
For each logging section, new data is added to the end of the existing data in the same file. By default, the log file is named "GeTACGPSLog" and saved to "My Documents" folder on your device. To specify a different name and location for file, tap **Setting → Log → File**.

SBAS Settings

SBAS (WAAS, MSAS, ENGOS) provides additional accuracy and reliability for the GPS devices. Ground stations are necessary to achieve the purpose.

The SBAS feature works where such stations exist. To enable the feature, tap → **Settings → System → GPS → Advanced**. Tap the checkbox to enable or disable the SBAS function. A check (✓) indicates enabled.

Tap the checkbox to enable or disable the function. A check (✓) indicates enabled.


Start
ok
SBAS Settings
SBAS Settings :
Enable SBAS(WAAS, MSAS, ENGOS) Function
A SBAS-capable receiver can give you a better position accuracy.
Note : Can not enable/ disable SBAS when GPS is running.

Tap **ok** when finished. If you change the setting while a GPS program (such as TacLink) is running, the change takes effect only after you exit the GPS program and then start it again.

Chapter 7

Getting Connected

This chapter tells you how you can get your device connected through a variety of ways.

Types of Connections

Your device can connect to the Internet, to your computer, and to other devices and services.

Your device has two groups of connection settings: **My ISP** and **My Work Network**. My ISP settings connect your device to the Internet, and My Work Network settings connect to any private network, such as an intranet that you use at work.

The following types of connections are available on your device:

- **Cellular (GPRS)** is a long-distance wireless data connection that is available through some mobile service operators. (Select models only)
- **Dial-up** lets you access the Internet or a corporate network by dialing a phone number. (Select models only)
- **Wi-Fi** lets you wirelessly connect your device to the Internet through access points that can be up to 30 meters (about 100 feet) away.
- **Bluetooth** lets you create a temporary wireless network that can link up to eight devices that are within 10 meters (about 33 feet) of one another.

- **USB** is a wired connection between your device and a computer for synchronizing data or surfing the Internet. (See "ActiveSync" in Chapter 6 for information.)

Using Cellular Connection (Select Models Only)

Models supporting mobile phone functions allow you to access the Internet using the mobile network.

Setting up a Cellular (GPRS) Connection

NOTE: You must subscribe to GPRS service with your mobile operator.

In most cases, your cellular (GPRS) connection will be preconfigured by your cellular service provider. You will not have to set up a GPRS connection or change your GPRS settings.

If you do have to set up a GPRS connection, you must obtain the settings from your mobile operator before you start this procedure.

1. Tap → **Settings** → **Connections** → **Connections**.
2. In either group, tap **Add a new modem connection**.
3. In the **Enter a name for the connection** field, enter a name for the connection.
4. In the **Select a modem** field, select **Cellular Line (GPRS)**, and then tap **Next**.
5. Enter the access point name provided by your mobile operator, and then tap **Next**.
6. Enter your user name and password, and then tap **Finish**.

Setting up a Dial-up Connection

NOTE: Depending on your wireless service provider, dial-up connections may not be supported on your device.

With dial-up, your service provider gives you a phone number that you dial in order to connect your device to the Internet.

1. Tap → **Settings** → **Connections** → **Connections**.
2. In either group, tap **Add a new modem connection**.
3. In the **Enter a name for the connection** field, enter a name for the connection.
4. In the **Select a modem** field, select **Cellular Line**, and then tap **Next**.
5. Enter the phone number provided by your service provider, and then tap **Next**.
6. Enter your user name and password, and then tap **Finish**.

Using Wireless Network

Your device has a built-in wireless network module. As long as you are in a wireless LAN (WLAN) environment, you can connect to the network without physical cables.

Switching On or Off the Wi-Fi Radio

By default, the Wi-Fi radio is switched off. To switch on or off the Wi-Fi radio:

1. Tap the Wireless Manager section on the Today screen.

   - or -

   Tap the connectivity indicator on the navigation bar and tap **Wireless Manager**.

2. In the Wireless Manager screen, tap **Wi-Fi** to change the Wi-Fi radio status.

   When switched on, your device will display the word **Available** if wireless networks are detected.

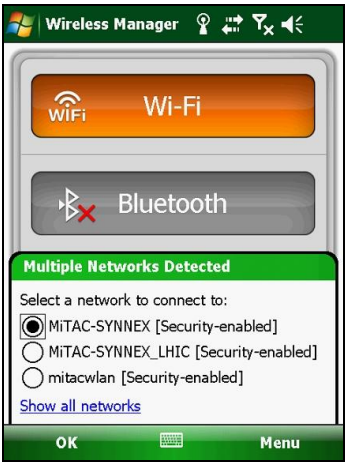
   If you have previously connected to a wireless network, your device will try to connect to the same network and display the name of the network after the connection.

Connecting to a Wireless Network

1. Switch on the Wi-Fi radio. (See "Switching On or Off the Wi-Fi Radio" previously.)
2. Your device will detect available Wi-Fi networks.

   If more than one network is detected, the screen will display a network list. Select the network you want to connect to, and tap **OK**.
3. Select to connect to the Internet or the private network, and then tap **Connect**.
4. If the selected network requires a network key, enter the key and tap **Connect**.

   The icon appears on the navigation bar and the RF indicator on your device flashes in amber.



NOTE:

- You can also search for a network to connect by tapping → **Settings** → **Connections** → **Wi-Fi** → **Search for Networks.**
- Once you have connected to a network, the shortcut is created in Settings. To change the network settings, tap → **Settings** → **Connections** → **Wi-Fi**. Tap the desired network and change the settings.

5. When you have finished using the wireless network, end the Wi-Fi connection by switching off its radio.

NOTE: Leaving the radio on will consume more power.

Using the Bluetooth Function

NOTE: Getac does not guarantee the product's compatibilities with the Bluetooth headsets/devices from all manufacturers.

Your device incorporates the Bluetooth capability. Bluetooth technology is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange information over a distance of about 10 meters (30 feet) without requiring a physical connection.

Switching On or Off the Bluetooth Radio

By default, the Bluetooth radio is switched off. To switch on or off the Bluetooth radio:

1. Tap the Wireless Manager section on the Today screen.

   - or -

   Tap the connectivity indicator on the navigation bar and tap **Wireless Manager**.

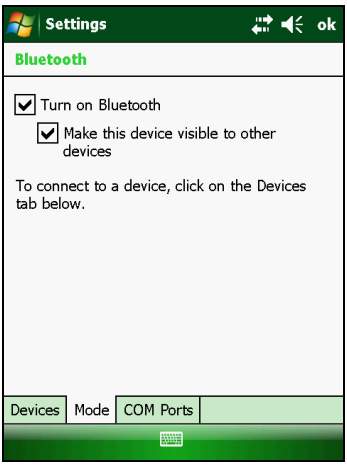
2. In the Wireless Manager screen, tap **Bluetooth** to switch on or off the radio.

   The RF indicator flashes in blue to indicate that the Bluetooth radio is on.

3. For other devices to detect your device, tap **Menu → Bluetooth Settings → Mode → Make this device visible to other devices**.

4. When not using the Bluetooth function, switch off the Bluetooth radio.

NOTE: Leaving the radio on will consume more power.



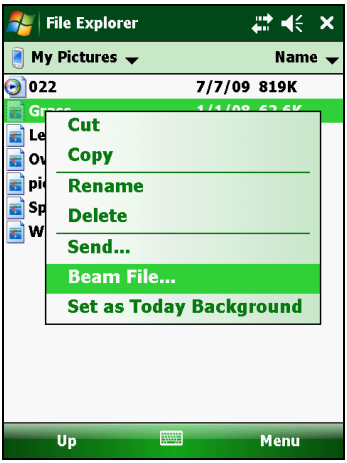
Sending Files via the Bluetooth Function

1. Switch on the Bluetooth radio. (See "Switching On or Off the Bluetooth Radio" previously.)

2. From the program, tap and hold the item you want to beam, such as an appointment in Calendar, a task in Tasks, a contact card in Contacts, or a file in File Explorer.

3. Tap **Beam [type of item]** in the shortcut menu.

4. Your device searches for other devices with Bluetooth capabilities within close range, and displays them in the list. Tap the device to which you want to send the item.



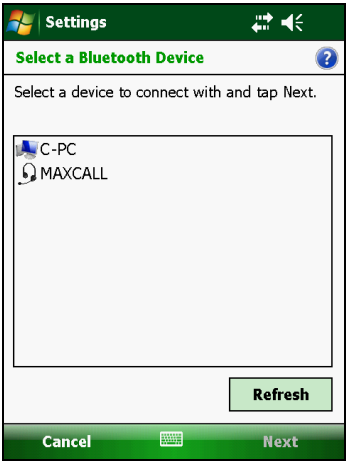
CAUTION: Files are saved automatically before they are beamed. If a Word document or Excel workbook was created on a computer, unsupported content and formatting may be lost when the files are saved.

Creating a Bluetooth Partnership

A partnership is a relationship that you create between your device and another device with Bluetooth capabilities to help exchange information in a secure manner. Creating a partnership involves entering the same Bluetooth passcode on both devices. Once a partnership is created, your devices need only have the Bluetooth function switched on to exchange information; they do not need to be visible.

1. Make sure that the two devices are switched on, visible, and within close range.
2. Tap → **Settings** → **Connections** → **Bluetooth** → **Devices** → **Add new device**.

   Your device searches for other devices with Bluetooth capabilities, and displays them in the list.
3. Tap the name of the other device, and tap **Next**.
4. In **Passcode**, enter an alphanumeric passcode between 1 and 16 characters, and tap **Next**.
5. Enter the same passcode on the other device.
6. Tap **Done**.



Chapter 8

Troubleshooting and Maintenance

This chapter gives solutions to common device problems you may encounter. It also provides guidelines on taking care of your device.

Resetting Your Device

Occasionally, you may need to reset your device. For example, you should reset your device when it stops responding; or appears to be “frozen” or “locked up.”

To reset your device, remove the battery cover, use the stylus to press the reset switch, and then replace the battery cover. Your device should restart.

Restoring Factory Default State

In some cases, you may need to restore your device to the factory default state by clearing the memory from your device. For example, you should clear the memory:

- When your device does not respond after being restarted.
- When you forget your password.

Clearing the memory means all data you have entered in your device's memory, including all files, system settings and additional programs you have installed, will be erased. (Programs installed to ROM at the factory are not affected.)

CAUTION: To ensure the integrity of your data should it be necessary to clear the memory, you are advised to regularly back up your data.

Follow this procedure to clear the memory from your device:

1. Remove the battery and then replace it.
2. Press the left soft key and the **Action** key, and while keeping the two keys down, press the power button.
3. Release all the keys when you see the "Clean boot now" message.

Troubleshooting

NOTE: If you encounter a problem you cannot solve, contact your dealer for assistance.

Problem	Solution
Power does not switch on when using battery power.	The remaining battery power may be too low to run your device. Charge the battery.
Screen responds slowly.	Make sure that your device is not running out of battery power. If the problem still persists, restart your device.
Screen freezes.	Restart your device.
Cannot establish a connection with a computer via USB.	Make sure that your device and your computer are both switched on before trying to establish a connection.
	Make sure that the cable is securely plugged into the USB port on your computer and on your device. Connect the USB cable directly to your computer—do not run the cable through a USB hub.
	Restart your device before connecting the cable. Always disconnect your device before you restart your computer.
	In some specific cases, your device may experience connection problems when it is connected to a Windows computer running ActiveSync. To resolve the problems, please tap → **Settings** → **Connections** → **USB to PC,** and then clear **Enable advanced network functionality**.

Problem	Solution
A warning message of not enough memory appears.	Delete files you no longer need.
	Remove programs you no longer need.
	Delete all files and clear history in Internet Explorer.
	Stop programs you are not currently using. To check the state of your active programs, tap → **Settings** → **System** → **Task Manager**.
	Restart your device.

Caring for Your Device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to your device.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow your device to dry out completely before use.
- The screen surface can easily be scratched. Avoid touching it with sharp objects. Non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.

- Never clean your device with it powered on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.
- Do not use paper towels to clean the screen.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void the warranty.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.

Chapter 9

Regulatory Information

NOTE: Marking labels located on the exterior of your device indicate the regulations that your model complies with. Please check the marking labels on your device and refer to the corresponding statements in this chapter. Some notices apply to specific models only.

Regulations Statements

European Notice

Products with the CE marking comply with Radio & Telecommunication Terminal Equipment Directive (R&TTE) (1999/5/EEC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) – as amended by Directive 93/68/ECC – issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Standards:

EN301489-1: Electronic compatibility and Radio spectrum Matters (ERM), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN301489-17: Electronic compatibility and Radio spectrum Matters (ERM), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

EN55022: Radio disturbance characteristics
EN55024: Immunity characteristics
EN6100-3-2: Limits for harmonic current emissions
EN6100-3-3: Limitation of voltage fluctuation and flicker in low-voltage supply system
EN60950 / IEC 60950: Product Safety

The manufacturer cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with the CE Marking.

FCC Regulations

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Precautions

- Prolonged listening of music in maximum volume can damage the ears.
- The use of headphones other than those recommended/supplied can cause hearing impairment due to excessive sound pressure.

About Charging

- Use only the AC adapter supplied with your device. Use of another type of AC adapter will result in malfunction and/or danger.
- Use only the car charger supplied by the manufacturer. Use of another type of car charger will result in malfunction and/or danger.
- This product is intended to be supplied by a LISTED Power Unit marked with "LPS," "Limited Power Source," and output rated + 12 V dc / 4.16 A.
- Use a specified cradle approved by the manufacturer.
- Use a specified battery in the equipment.

About the Charger

- Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
- Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.
- Connect the charger to a proper power source. The voltage and grounding requirements are found on the product case and/or packaging.

- Do not use the charger if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

About the Battery

- Use a specified charger approved by the manufacturer.
- Do not mutilate, puncture, or dispose of battery in fire. The battery can burst or explode, releasing hazardous chemicals.
- Important instructions
  - ✓ **Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
  - ✓ Replace only with the same or equivalent type recommended by the manufacturer.
  - ✓ The battery must be recycled or disposed of properly.
  - ✓ Use the battery only in the specified equipment.

About the Radio Frequency Exposure

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the device as reported to the FCC when tested for use at the ear is 0.284 W/kg (for the 3G model) or 0.134 W/kg (for the

non-3G model) and when worn on the body, as described in this user guide, is 0.285 W/kg (for the 3G model) or 0.036 W/kg (for the non-3G model). (Body-worn measurements differ among device models, depending upon available enhancements and FCC requirements.)

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID: **QYLPS236G** (for the 3G model) or **QYLPS236** (for the non-3G model).

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 1.5 cm from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines.